PUMP STATION ASSESSMENT & PREVENTIVE MAINTENANCE / CORRECTIVE MEASURES PLAN

FOR

Town of Johnston Sewers

Johnston, RI

April 7, 2017

Mayor: Joseph Polisena **Town Hall** 1385 Hartford Avenue Johnston, RI 02919

Department of Public Works Director: Arnold Vecchione

Department of Public Works

100 Irons Avenue

Johnston, RI 02919

Prepared by:
DiPrete Engineering
2 Stafford Court
Cranston, RI 02920

401-943-1000

Table of Contents

1.	INTRODUCTION AND OVERVIEW	1
	1.1 Purpose	1
	1.2 Sewer System Overview	1
	1.3 Pump Stations	2
2.	INSPECTIONS	4
	CURRENT CONDITIONS AND PREVENTIVE MAINTENANCE / CTIONS	CORRECTIVE 5
	3.1 Current Conditions	5
	3.2 Preventive Maintenance / Corrective Actions	5
	3.2.1 Structures/Wet Wells and Pumps	5
	3.2.2 Alarms	6
	3.2.3 Backup Power	6
	3.2.4 Control Panels	6
	3.2.5 Funding	6

1. Introduction and Overview

1.1 Purpose

The purpose of this plan is to document the current conditions of the sanitary sewer pump stations which are owned, operated and maintained by the Town of Johnston, and all corrective measures the Town plans to complete in the near future.

1.2 Sewer System Overview

This section provides a general description of the Town of Johnston's collection system.

The sanitary sewer system serving Johnston is owned in part by the Town of Johnston and in part by the Narragansett Bay Commission (NBC). The Town owns and operates the secondary lines and pump stations. NBC owns and operates the interceptor lines and a pump station on Central Avenue. Johnston's wastewater collection system includes the following components: approximately 58 miles of Town owned and maintained sewer lines (55 miles of gravity main and 3 miles of force main) and 14 sewer pumping stations (see section 1.3 below for a full list). The system became operational in 1960 and is comprised of components ranging in age from that time to 2017. Almost all Johnston's gravity sewer pipes are 8 inches or 10 inches in diameter. Materials include PVC, vitrified clay (VC), and asbestos cement pipe (AC).

Sewage collected in the Johnston/NBC system is conveyed to the Fields Point Wastewater Treatment Facility. All sewer users on the Johnston/NBC system pay NBC directly.

For further information on the collection system, refer to the "Wastewater Facilities Plan Update for NBC-Owned Interceptors and Town Sewers in Johnston, Rhode Island (WWFP)" completed in 2011 for the Narragansett Bay Commission. The report was submitted to NBC by Pare Corporation with assistance from The BETA Group. A copy of the WWFP is on file in the Town Engineering office. This WWFP update provides detailed information on the Town's sewer collection and conveyance system, along with information on the NBC facilities in Johnston.

1.3 Pump Stations

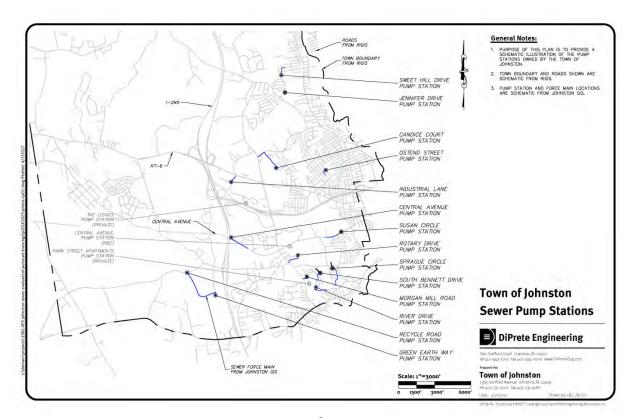
Town of Johnston Pump Stations

The Town of Johnston owns and operates 14 sanitary sewer pumping stations. The stations are generally located in the eastern portion of the Town. A list of all Town owned pump stations is included below:

- Candice Court
- Central Avenue (Town Owned)
- Green Earth Way (formerly known as Austin Way)
- Industrial Lane (formerly known as Old Pocasset Lane)
- Jennifer Drive
- Morgan Mill Road
- Ostend Street
- Recycle Road (formerly known as Shun Pike)
- River Drive (new in April 2017 replaced station of the same name)
- Rotary Drive
- South Bennett Drive (new in 2017- replaced station formerly known as Morgan Estates and/or LaFazia Drive)
- Sprague Circle
- Susan Circle (formerly/also known as Central Ave pole #20)
- Sweet Hill Drive (formerly/also known as Green Valley Estates)

All Town owned pump stations and force mains are shown schematically on the figure below. A full scale version of the figure is included in Appendix A.

Figure 1



Appendix B includes a photo page of each pump station including an aerial image of the location and 2 to 3 photos of the pump station and vicinity.

It must be noted that the River Drive and South Bennett Road pump stations are both being replaced by new stations that will be on line in April of 2017. The stations are being replaced to mitigate past flooding problems.

There are several residential developments in Johnston that are serviced by low pressure sewers with individual pumping systems. The conditions of these systems are not addressed in this assessment.

Stations Owned and Operated by Others

In addition to the Town owned pump stations, NBC owns and operates a pump station located at #345 Central Avenue and there are two small private pumping stations in Johnston serving residential developments. The conditions of the facilities owned by others are not addressed in this assessment.

2. Inspections

All Town owned pump stations are inspected weekly by Fernco Services. A standard inspection form is completed by the inspector on each visit. If any corrective actions are necessary, the work is completed at that time or noted on the inspection report for follow up.

Exhibit 1 below is an image of a typical inspection report. A copy of the inspection forms for September of 2016 are attached in Appendix C as a running example of the data collected, items noted, and corrective actions taken as part of routine operation of the stations.

The inspection reports are reviewed periodically to see if there are any incremental changes in readings that could be indicators of future problems. If anything is identified, the inspectors are notified to investigate further on their next visit. During the next inspection the items are either addressed immediately or scheduled for future corrective action.

Exhibit 1

FERNCO SERVICES INC.	70648
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BATTERY HOUR METER	
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BLEED SYSTEM PURGE SYSTEM	
RELIEF VALVE LUBE	
COMP #1 AMPS ON OFF	
COMP #2 AMPS ON OFF	
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5. BUILDING	
LIGHTS JK, SUMP PUMP JU HEATER VF	
DEHUMIDIFIER NEEDS CLEANING NO PAINTING	
6. SPECIAL NOTES	

3. Current Conditions and Preventive Maintenance / Corrective Actions

3.1 Current Conditions

All pump stations owned and operated by the Town of Johnston are in good reliable working order. All stations have a duplex pump configuration. Records from 2011 to 2016 were reviewed and show there have been no pump station failures resulting in a sanitary sewer overflow during that time period (see Appendix D for a copy of pump station Emergency Calls between 2011 and 2016).

Appendix B includes a photo page of each pump station including an aerial image of the location and 2 to 3 photos of the pump station and vicinity.

Since two of the Town's stations were recently relocated to mitigate flooding issues, all other stations were investigated for potential for flooding issues. FEMA mapping was overlaid on aerial imagery of each pump station to identify stations that were mapped within the flood plain.

Morgan Mill Road and Rotary Drive stations appear to be within the mapped flood plain. Morgan Mill station has a riser on the wet well to protect the station from flooding. The Rotary Drive station appears to be subject to flooding.

A table of current conditions and preventive maintenance / corrective measures was compiled for the 14 Johnston owned pump stations. A copy of the spreadsheet is attached to this plan as Appendix E. A description of the condition and the preventive maintenance / corrective measures is provided in the next section of this plan.

3.2 Preventive Maintenance / Corrective Actions

This section of the plan includes a description of the condition of each station and preventive maintenance / correction action needed, grouped by types of actions.

3.2.1 Structures/Wet Wells and Pumps

The stations listed below are all approximately 30 years or more old.

- Candice Court
- Industrial Lane
- Morgan Mill Road
- Ostend Street
- Sprague Circle
- Susan Circle
- Sweet Hill Drive

Of these stations, only Candice Court and Sprague Circle still have the original pumps. These pumps are nearing the end of their life cycle. The Public Works - Utilities Division (PW-UD) is exploring options for replacing the pumps within the next 5 years. Grease and solids build up has been identified as an issue in both the Candice Court and Sprague Circle stations. The planned corrective measure is to subcontract biannual cleaning of those stations. Contracts are scheduled to be in place by the end of 2017.

The Industrial Lane station is over 35 years old. It is functioning well, but reaching the end of its life cycle. The current need at this station is improvements to the electrical controls. Over the next several months the PW-UD is evaluating the options of upgrading the electrical controls or replacing the pump station entirely. The corrective measure scheduled is to select a remedy and request proposals for design/construction by the end of 2017.

Both pumps in the Morgan Mill Road station are nearing the end of their life cycle. The corrective measure scheduled is to install new pumps by the end of 2017.

The Town will investigate the potential risk of flooding of the Rotary Drive station, and if appropriate, by the end of 2017 develop a corrective action plan to address flooding.

The Susan Circle station has one relatively new pump and one older pump. The older pump is in need of replacement. The scheduled corrective measure is to replace the older pump by the end of 2017.

3.2.2 Alarms

Only Central Avenue, Green Earth Way, and Recycle Road pump stations have fully automated and monitored alarm systems. The PW-UD is proposing to install automated alarms at all 11 stations that don't currently have them and enter into a contract with a monitoring service. Work is scheduled to be complete in 2017.

3.2.3 Backup Power

Only Central Avenue, Green Earth Way, Recycle Road, and Rotary Drive pump stations have permanent emergency generators on site. The PW-UD wants to have the ability to power every station in the event of a power outage. The PW-UD is planning to install a receptacle at each station to allow connection of a portable emergency power generator. They are also planning to purchase a generator(s) suitable of powering each station. Installation of all receptacles is scheduled to be complete in 2017.

3.2.4 Control Panels

The Jennifer Drive and Sweet Hill Drive stations would both benefit from installation of replacement control panels. Replacement of the control panels is scheduled to be complete by the end of 2017.

3.2.5 Funding

The majority of the maintenance and corrective measures proposed need funding in the Town's 2017/2018 budget. Therefore, the schedule for all work is subject to funding approval by the Town Council. If funding for all proposed work isn't approved in the 2017/2018 budget, the PW-UD will prioritize the work to address the most significant issues soonest.

Appendix A

Town of Johnston

Sewer Pump Stations Location Map

ROADS FROM RIGIS TOWN BOUNDARY FROM RIGIS SWEET HILL DRIVE PUMP STATION JENNIFER DRIVE *I-295* PUMP STATION CANDICE COURT PUMP STATION OSTEND STREET PUMP STATION RT-6 INDUSTRIAL LANE PUMP STATION CENTRAL AVENUE PUMP STATION THE LEDGES PUMP STATION CENTRAL AVENUE -(PRIVATE) SUSAN CIRCLE PUMP STATION CENTRAL AVENUE PUMP STATION (NBC) ROTARY DRIVE PUMP STATION PARK STREET APARTMENTS PUMP STATION (PRIVATE) SPRAGUE CIRCLE PUMP STATION SOUTH BENNETT DRIVE PUMP STATION MORGAN MILL ROAD PUMP STATION RIVER DRIVE PUMP STATION RECYCLE ROAD PUMP STATION GREEN EARTH WAY PUMP STATION SEWER FORCE MAIN FROM JOHNSTON GIS Scale: 1"=3000' 1500' 3000' 6000'

General Notes:

- 1. PURPOSE OF THIS PLAN IS TO PROVIDE A SCHEMATIC ILLUSTRATION OF THE PUMP STATIONS OWNED BY THE TOWN OF JOHNSTON.
- 2. TOWN BOUNDARY AND ROADS SHOWN ARE SCHEMATIC FROM RIGIS.
- 3. PUMP STATION AND FORCE MAIN LOCATIONS ARE SCHEMATIC FROM JOHNSTON GIS.

Town of Johnston Sewer Pump Stations



Two Stafford Court Cranston, RI 02920 tel 401-943-1000 fax 401-464-6006 www.DiPrete-Eng.com

Prepared for:

Town of Johnston

1385 Hartford Avenue Johnston, RI 02919 tel 401-231-4000 fax 401-231-4186

Date: 4/7/2017

Drawn By: J.A.C./A.D.O.

Appendix B

Town of Johnston

Sewer Pump Stations Aerial Image and Vicinity Photos

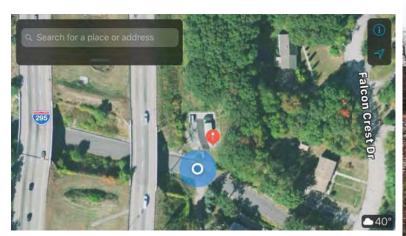








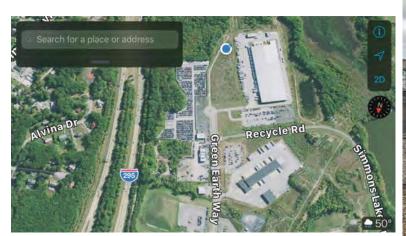
Candice Court Pump Station Aerial Image and Vicinity Photos March, 2017







Central Avenue Pump Station Aerial Image and Vicinity Photos March, 2017

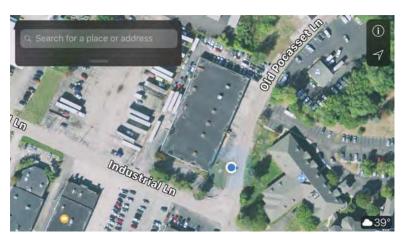








Green Earth Way Pump Station Aerial Image and Vicinity Photos March, 2017

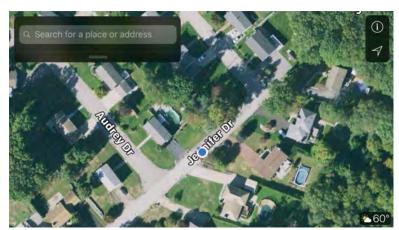








Industrial Lane Pump Station Aerial Image and Vicinity Photos March, 2017









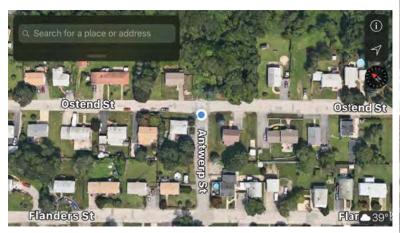
Jennifer Drive Pump Station Aerial Image and Vicinity Photos March, 2017







Morgan Mill Road Pump Station Aerial Image and Vicinity Photos March, 2017







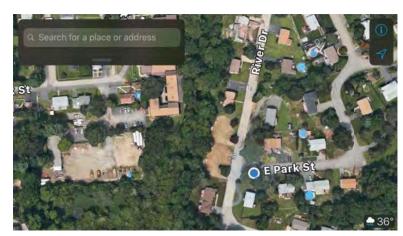
Ostend Street Pump Station Aerial Image and Vicinity Photos March, 2017







Recycle Road Pump Station Aerial Image and Vicinity Photos March, 2017

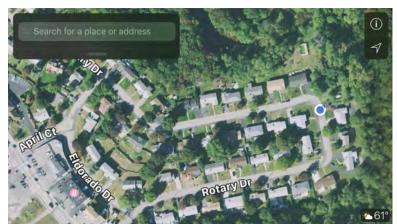








River Drive Pump Station Aerial Image and Vicinity Photos March, 2017









Rotary Drive Pump Station Aerial Image and Vicinity Photos March, 2017









South Bennett Drive Pump Station Aerial Image and Vicinity Photos March, 2017









Sprague Circle Pump Station Aerial Image and Vicinity Photos March, 2017







Susan Circle Pump Station Aerial Image and Vicinity Photos March, 2017









Sweet Hill Drive Pump Station Aerial Image and Vicinity Photos March, 2017

Appendix C

Town of Johnston

Typical Pump Station Inspection Reports

FY 16/17



OPEN PO INVOICE TRANSMISSION FORM FOR DEDUCTIVE BILLING 10022651 PO# ACCOUNT # 1-450-63-1420-53700-00 VENDOR NAME FERN CO PUMP SERVICE, INC. DEPARTMENT DPW - UTILITIES Description: Weekly Service Check for pump stations-Sept. NUMBER OF INVOICES ATTACHED_ 3000,00 TOTALING \$ Division Head Coll Vech

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	VOLTAGE 337
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PACKING	LUBE UNIT
LUBE UNIT	TEST VALVES
TEST VALVES	
2. MOTOR CONTROL CENTER 9 5	CS49.4 OUT
2. MOTOR CONTROL CENTER 9 6.5 HOUR METERS PUMP #1 7504.7	PUMP #2 6899. 4 OK
PUNLIGHTS W/A	ALARM TEST
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MANUAL TEST	ANTI-FREEZE:
FUEL BATTERY	HOUR METER
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CUSTOMER SIGNATURE: _

FERNCO SERVICES INC.
508-336-3222
DATE $\frac{9-23-16}{}$ INITIALS ${}$
STATIONCANDICE CT.
LOCATED JOHN STON
SERVICE CHECK LIST
1. PUMPS CONDITION
PUMP #1 - AMPS PUMP #2 - AMPS
16.1 14.6 12.1
VOLTAGE 235^{39} VOLTAGE 235^{39}
VOLIAGE
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BOTH PUMPS ON OFF ALARM ON OFF
3. WET WELL GREASE BUILD-UP YES FLOATS OK DEBRIS YES
GREASE BUILD-UP YES FLUAIS DEBING
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4. COMPRESSORS
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5. BUILDING SUMP PUMP HEATER HEATER
LIGHIS SOWI TOWN RANTING
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6. SPECIAL NOTES

DATE 9-30-16	707
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STATION CANDICE CT.	·
LOCATED JOHN STOW	
SEDVIOR	Table 1
1. PUMPS CONDITION	CHECK LIST
PUMP #1 - AMPS	P
-16.5 15.1	PUMP #2 - AMPS
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VOLTAGE 238 3	VOLTAGE 33637
GLANDS	GLANDS
PACKING	PACKING
LUBE UNIT	LUBE UNIT
TEST VALVES	TEST VALVES
2. MOTOP CONTROL CONTROL	COUNTER
2. MOTOR CONTROL CENTER 9 HOUR METERS PUMP #1 7508.	5.7 Blue 12 (843)
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COMP #1 AMPS COMP #2 AMPS BUILDING	ONOFFON HEATER)
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TATION CENTRAL DUE. SEW.	RE PUMP STATION	
DCATED JOHNSTON		-
SERVICE CI	HECK LIST	
PUMP #1 - AMPS	PUMP #2 - AMPS	
VOLTAGE 60 HZ	VOLTAGE <u>6,0 1-1 2</u>	
GLANDS	GLANDS	
PACKING	PACKING	
LUBE UNIT	LUBE UNIT	
TEST VALVES	TEST VALVES	
MOTOR CONTROL CENTER 9		
HOUR METERS PUMP #1 2195.	17.1 PUMP #2_1777.7 15.3	
RUN LIGHTSOK	ALARM TEST	
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SPECIAL NOTES WORKED 3	VI VALVE	

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CATED		
SE PUMPS CONDITION	RVICE CHECK LIST	
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OMPRESSORS OIL LEVEL	GAUGE READING PURGE SYSTEM _ LUBE	FFERENCE
OMPRESSORS OIL LEVEL	GAUGE READING PURGE SYSTEM _ LUBE ONOF	FFERENCE
COMPRESSORS OIL LEVEL	GAUGE READING PURGE SYSTEM _ LUBEONOF	FFERENCE
COMPRESSORS OIL LEVEL BLEED SYSTEM RELIEF VALVE COMP #1 AMPS COMP #2 AMPS BUILDING LIGHTS	GAUGE READING PURGE SYSTEM _ LUBE ONOF	FFERENCE FF. SATER OFF

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SERVICE CHECK LIST I. PUMP \$ CONDITION PUMP \$1 - AMPS	TATION GREEN EN	DRTH AUE.	STATION	H2
PUMP #1 - AMPS	DCATED JOHNST	ron		
PUMP #1 - AMPS	S	SERVICE CHEC	CK LIST	
VOLTAGE GLANDS GLANDS PACKING LUBE UNIT TEST VALVES MOTOR CONTROL CENTER HOUR METERS PUMP #1 279, 97 RUN LIGHTS MANUAL TEST GENERATOR TEST GENERATOR TEST BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES LEAD PUMP SON 5.7 OFF 3.2 ALARM ON 7.5 OFF 1.2 ALARM ON 7.5	. PUMPS CONDITION	. •		2
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SPECIAL NOTES	DEHUMIDIFIER	NEEDS CLEANING	PAINTING 100	

FERNCO SERV 508-336-3222	ICES INC.		<i>-</i> 60700
DATE 9-2-16	/ INITIALS,	$\mathcal{D}\mathcal{N}$	69792
STATION			
LOCATED JOHNSTO)/J		
	SERVICE CHEC	KIIST	<u> </u>
1. PUMPS CONDITION	l ==		,
PUMP #1 - AMPS_	8.1	PUMP #2 - AMPS 8	
9,2	8.4	8.7	
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2. MOTOR CONTROL	ENTER	/	
HOUR METERS PUMP #1_	NA	PUMP #2//A	
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MANUAL TESTO	<u>K</u>	AUTO TESTOK	
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4. COMPRESSORS			
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COMP #2 AMPS	ON _	OFF	
5. BUILDING)	
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	NEEDS CLEANING	FAINTING	
6. SPECIAL NOTES			
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CUSTOMER SIGNATURE:			

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	SERVIC	CE CHECK	LIST		
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COMP #2 AMPS					
COMP #2 AMPS				_	
COMP #2 AMPS			1	1	
COMP #2 AMPS		P PUMP	HEATER		_

FERNCO SERVICES INC. 508-336-3222 70653 DATE 9-16-16 INITIALS D. TV. INDUSTRIAL OHNSTON **SERVICE CHECK LIST** 1. PUMPS CONDITION PUMP #1 -AMPS PUMP #2 - AMPS **VOLTAGE VOLTAGE GLANDS GLANDS PACKING PACKING LUBE UNIT LUBE UNIT TEST VALVES TEST VALVES** 2. MOTOR CONTROL CENTER HOUR METERS PUMP #1 ____ PUMP #2_ **RUN LIGHTS** ALARM TEST ___ MANUAL TEST ___ つと AUTO TEST ___ GENERATOR TEST ________ OIL LEVEL __ ___ ANTI-FREEZE _ _____ BATTERY _____ ____ HOUR METER **BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES** LEAD PUMP ON __ ___LAG ON _ OFF. BOTH PUMPS ON _ L___ ALARMON_ **3**5 3. WET WELL No FLOATS OK DEBRIS LITTLE GREASE BUILD-UP _ NEEDS CLEANING ____ ____ NEEDS ENZYMES1 ENZYME PUMP __ HYPO PUMP _____ CL-2 READING ___ ____ pH READING . FLOW METER READINGS _ CURRENT _ PREVIOUS _ DIFFERENCE 4. COMPRESSORS OIL LEVEL _____ GAUGE READING BLEED SYSTEM ____ PURGE SYSTEM _ RELIEF VALVE ___ LUBE _ COMP #1 AMPS _ ON _ __ OFF COMP #2 AMPS __ ON ___ OFF 5. BUILDING LIGHTS_ . SUMP PUMP _ HEATER **DEHUMIDIFIER** NEEDS CLEANING ___ **PAINTING** 6. SPECIAL NOTES

CUSTOMER SIGNATURE:

508-336-3222 DATE 9-23-16 INITIALS O 1/1 . -NOUSTRIAL LANG TOHNSTON LOCATED SERVICE CHECK LIST 1. PUMPS CONDITION PUMP #1 - AMPS PUMP #2 - AMPS **VOLTAGE VOLTAGE GLANDS GLANDS PACKING PACKING LUBE UNIT LUBE UNIT TEST VALVES TEST VALVES** 2. MOTOR CONTROL CENTER HOUR METERS PUMP #1 PUMP #2_ RUN LIGHTS _____ **ALARM TEST** MANUAL TEST _ AUTO TEST . GENERATOR TEST _ OIL LEVEL ___ ____ ANTI-FREEZE FUEL ____ ___ BATTERY _____, HOUR METER **BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES** ____ LAG ON _ LEAD PUMP ON _ OFF_ BOTH PUMPS ON _ ____ ALARM ON _ 3. WET WELL GREASE BUILD-UP ___ DEBRIS LITTLE FLOATS NEEDS CLEANING ___ ____ NEEDS ENZYMES ENZYME PUMP ___ __ HYPO PUMP __ **NEEDS HYPO** CL-2 READING ____ ____ pH READING _ FLOW METER READINGS __ CURRENT PREVIOUS DIFFERENCE 4. COMPRESSORS OIL LEVEL _____ **GAUGE READING** BLEED SYSTEM _ PURGE SYSTEM . RELIEF VALVE __ LUBE _ COMP #1 AMPS _ _ OFF COMP #2 AMPS _ OFF 5. BUILDING LIGHTS_ SUMP PUMP _ **HEATER** DEHUMIDIFIER . NEEDS CLEANING _ **PAINTING** 6. SPECIAL NOTES

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FERNCO SERVICES INC. 508-336-3222 69790 DATE ____9-2-16 INITIALS _ ./. JENNIFER JOHN STON LOCATED SERVICE CHECK LIST 1. PUMPS CONDITION PUMP #1 - AMPS __ ISOLATEO PUMP #2 - AMPS **VOLTAGE VOLTAGE GLANDS GLANDS PACKING PACKING LUBE UNIT LUBE UNIT TEST VALVES TEST VALVES** 2. MOTOR CONTROL CENTER HOUR METERS PUMP #1 ____ /\// **PUMP #2_** RUN LIGHTS _____OK ALARM TEST _ MANUAL TEST ___ AUTO TEST _ GENERATOR TEST _______ OIL LEVEL _______ ___ ANTI-FREEZE __ BATTERY _____ HOUR METER **BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES** OFF_ LEAD PUMP ON _ ____ LAG ON _ BOTH PUMPS ON ___ ____ ALARM ON _ 3. WET WELL SOME FLOATS ___OK GREASE BUILD-UP DEBRIS _____ NEEDS ENZYMES_ NEEDS CLEANING _ ____ HYPO PUMP _____ ENZYME PUMP_ CL-2 READING ____ ___ pH READING _ FLOW METER READINGS ____ CURRENT PREVIOUS __ DIFFERENCE 4. COMPRESSORS OIL LEVEL _____ GAUGE READING BLEED SYSTEM _ PURGE SYSTEM _ RELIEF VALVE __ LUBE ___ COMP #1 AMPS _ ON _ OFF COMP #2 AMPS ____ OFF. 5. BUILDING LIGHTS_ _ SUMP PUMP ___ **HEATER** _ NEEDS CLEANING __ PAINTING'

6. SPECIAL NOTES

FERNCO SERVICES INC. 508-336-3222 INITIALS DIV. DATE _ TENNIFER OHUSTON LOCATED ___ SERVICE CHECK LIST 1. PUMPS CONDITION ISOLDIED PUMP #1 - AMPS ___ PUMP #2 - AMPS VOLTAGE **VOLTAGE GLANDS GLANDS PACKING PACKING LUBE UNIT LUBE UNIT TEST VALVES TEST VALVES** 2. MOTOR CONTROL CENTER HOUR METERS PUMP #1___ PUMP #2 RUN LIGHTS _____ **ALARM TEST** MANUAL TEST _ AUTO TEST. GENERATOR TEST __ OIL LEVEL __ ___ ANTI-FREEZE BATTERY ____ FUEL _____ ____ HOUR METER **BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES** LEAD PUMP ON _ ____ LAG ON __ OFF__ OFF BOTH PUMPS ON ___ OFF.... ____ ALARM ON _ OFF. 3. WET WELL GREASE BUILD-UP SomE FLOATS OK DEBRIS SomE NEEDS CLEANING ______ NEEDS ENZYMES_ ENZYME PUMP ____ _____ HYPO PUMP _____ NEEDS HYP CL-2 READING ____ ____ pH READING _ FLOW METER READINGS _ CURRENT PREVIOUS _ DIFFERENCE 4. COMPRESSORS OIL LEVEL ____ GAUGE READING BLEED SYSTEM ___ PURGE SYSTEM _ RELIEF VALVE __ LUBE _ COMP #1 AMPS __ _ OFF ON ____ COMP #2 AMPS ____ 5. BUILDING LIGHTS_ SUMP PUMP _ **DEHUMIDIFIER** NEEDS CLEANING _ **PAINTING**

70599

6. SPECIAL NOTES

508-336-3222 DATE ____9-16-16 INITIALS_ O-N. JENNIFER TOHNSTON LOCATED ____ SERVICE CHECK LIST 1. PUMPS CONDITION ISULATED PUMP #1 - AMPS ___ PUMP #2 - AMPS **VOLTAGE VOLTAGE GLANDS** GLANDS PACKING **PACKING LUBE UNIT LUBE UNIT TEST VALVES TEST VALVES** 2. MOTOR CONTROL CENTER HOUR METERS PUMP #1 ____ PUMP #2 __ OK RUN LIGHTS ____ ALARM TEST _ OK MANUAL TEST ____ AUTO TEST _ GENERATOR TEST _ _ OIL LEVEL _ ___ ANTI-FREEZE _ _____ BATTERY ___ __ HOUR METER . **BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES** LEAD PUMP ON __ OFF _____ LAG ON _ BOTH PUMPS ON _ OFF_ __ ALARM ON . OFF. 3. WET WELL GREASE BUILD-UP LITTLE FLOATS CLEANED (DEBRIS ____ NEEDS ENZYMES. ENZYME PUMP _____ __ HYPO PUMP ____ CL-2 READING ____ ____ pH READING _ FLOW METER READINGS _ CURRENT **PREVIOUS** _ DIFFERENCE 4. COMPRESSORS OIL LEVEL _____ GAUGE READING BLEED SYSTEM _ PURGE SYSTEM _ RELIEF VALVE LUBE _ COMP #1 AMPS _ _ OFF. COMP #2 AMPS __ _ OFF _ 5. BUILDING OK____ SUMP PUMP _ LIGHTS_ HEATER DEHUMIDIFIER NEEDS CLEANING ___ PAINTING 6. SPECIAL NOTES CUSTOMER SIGNATURE: _

70651

FERNCO SERVICES INC. 508-336-3222 70685 9-23-16 INITIALS_D.W. DATE _ TENNIFER 0HNS101 LOCATED. SERVICE CHECK LIST 1. PUMPS CONDITION PUMP #2 - AMPS **VOLTAGE VOLTAGE GLANDS GLANDS PACKING PACKING LUBE UNIT LUBE UNIT TEST VALVES TEST VALVES** 2. MOTOR CONTROL CENTER HOUR METERS PUMP #1_ **PUMP #2_** RUN LIGHTS ____ ALARM TEST _ MANUAL TEST _ AUTO TEST _ GENERATOR TEST ___ _ OIL LEVEL ___ __ ANTI-FREEZE ____ BATTERY _____' ____ HOUR METER . **BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES** _____ LAG ON _ LEAD PUMP ON . OFF__ BOTH PUMPS ON _ OFF_ __ ALARM ON _ 3. WET WELL SOME FLOATS OK DEBRIS SOME GREASE BUILD-UP_ **NEEDS CLEANING __** oxdots NEEDS ENZYMES $oldsymbol{\perp}$ _ HYPO PUMP _____ ENZYME PUMP_ NEEDS HYPE CL-2 READING ____ ____ pH READING _ FLOW METER READINGS . CURRENT _ PREVIOUS DIFFERENCE 4. COMPRESSORS GAUGE READING OIL LEVEL _____ BLEED SYSTEM __ PURGE SYSTEM _ RELIEF VALVE _ LUBE COMP #1 AMPS _ OFF ON _ COMP #2 AMPS ____ OFF 5. BUILDING LIGHTS _ _ SUMP PUMP _ _ HEATER __ NEEDS CLEANING ______ PAINTING ______ DEHUMIDIFIER .

6. SPECIAL NOTES

•	INITIALS
TION <u>JENNI PER</u>	C DR.
ATED JOHN STON	
SE	RVICE CHECK LIST
PUMPS CONDITION	ISOLATED DUMP 42 AMPS 16.7
PUMP #1 - AMPS	PUMP #2 - AMPS / 5
	727 18 227 18
	VOLTAGE
GLANDS	GLANDS
PACKING	PACKING
LUBE UNIT	LUBE UNIT
TEST VALVES	TEST VALVES
MOTOR CONTROL CEN	- -
HOUR METERS PUMP #1	N/A PUMP #2 N/A
RUN LIGHTS OF	ALARM TEST OR
MANUAL TEST	AUTO TEST
GENERATOR TEST /	OIL LEVEL ANTI-FREEZE
1 OLL	BATTERY HOUR METER
BUBBLETROL SYSTEM SIMULATI	
j	F LAG ON OFF
BOTH PUMPS ON OFF	F ALARM ON OFF
WET WELL	•
	FLOATS OK DEBRIS SIME
NEEDS CLEANING	
	HYPO PUMP NEEDS HYPO
01 5745440	pH READING
FLOW METER READINGS	printeriorità di la companya di la c
	CURRENT
	PREVIOUS
	DIFFERENCE
OMPRESSORS	•
OIL LEVEL	GAUGE READING
OIL LEVEL 1	
DI EED OVOTEM	PURGE SYSTEM
DI EED OVOTEN	- 5.132 5 5 . Em
BLEED SYSTEMRELIEF VALVE	LUBE
BLEED SYSTEM	LUBE
BLEED SYSTEM RELIEF VALVE COMP #1 AMPS COMP #2 AMPS	LUBE OFF
BLEED SYSTEM RELIEF VALVE COMP #1 AMPS COMP #2 AMPS	LUBE OFF OFF
BLEED SYSTEM RELIEF VALVE COMP #1 AMPS COMP #2 AMPS	LUBE

TE 9-2-16	INITIALS_	D-N.	(
ATION MORGA	10/1	O	
CATED TOHUS	02)		
LEAD	SERVICE CHEC	CK LIST / A/C	
PUMPS CONDITION	•	on List Lac	
PUMP #1 ZAMPS	10.2	PUMP #2 - AMPS6. 4	
	/1.4	6.3 6.5	
	21		/
VOLTAGE _	242 32	voltage)
GLANDS	ato to the	GLANDS	
PACKING		PACKING	
LUBE UNIT		LUBE UNIT	
TEST VALVES		TEST VALVES	
		TEST VALVES	
MOTOR CONTROL	CENTER ~		
HOUR METERS PUMP #1		PUMP #2 3659. 1	Ø
RUN LIGHTSOK	,	~ //	
MANUAL TEST	<u> </u>	ALARM TEST	
GENERATOR TEST/	1/	AUTO TEST	
17	OIL LEVEL		
	BATTERY	HOUR METER	
BUBBLETROL SYSTEM SIN			
LEAD PUMP ON	OFFLAG ON	,	
BOTH PUMPS ON!	OFFALARM	ON OFF	
WET WELL	· ^		
GREASE BUILD-UP		DEBRIS YES	
NEEDS CLEANING			
ENZYME PUMP	HYPO PUMP	NEEDS HYPO	
CL-2 READING	PH READ	ING	
FLOW METER READINGS		I	
_		CURRENT	
		PREVIOUS	
		DIFFERENCE	
OMPRESSORS			
OIL LEVEL	GAI	JGE READING	
BLEED SYSTEM		RGE SYSTEM	
RELIEF VALVE		E	
COMP #1 AMPS	T	OFF	
COMP #2 AMPS			
OUIVIF #4 AIVIFS	ON .	OFF	
		, ,	
		1	
BUILDING	_		
	SUMP PUMP NEEDS CLEANING		

FERNCO SERVICES INC. 508-336-3222	70602
DATE	
STATION MORGANMILL RD.	
LOCATED TOMUSTON	
LEPO SERVICE CHECK LIST LAG	
1. PUMPS CONDITION	. 8
PUMP #1 - AMPS PUMP #2 - AMPS	6.
<u></u>	<u>,,5</u>
VOLTAGE 243 VOLTAGE 25	1/3 ³ 2
GLANDS GLANDS	
PACKING PACKING	
LUBE UNIT LUBE UNIT	
TEST VALVES TEST VALVES	
a Matan adultadi anun-	
2. MOTOR CONTROL CENTER HOUR METERS PUMP #1 3455, 1 . 4 PUMP #2 3659,	1 0
RUN LIGHTS OF ALARM TEST OK	
MANUAL TEST AUTO TEST OK	
GENERATOR TEST NO OIL LEVEL ANTI-FREEZE	11
FUEL HOUR METER	7
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES	
LEAD PUMP ON OFF LAG ON OFF	
BOTH PUMPS ON OFF ALARM ON OFF	
o wetween	
GREASE BUILD-UP FLOATS OF DEBRIS YES	
GREASE BUILD-UP NEEDS CLEANING NEEDS CLEANING NEEDS ENZYMES NEEDS	
ENZYME PUMP NEEDS HYPO NEEDS HYPO	
CL-2 READING pH READING	
FLOW METER READINGS	
CURRENT	
PREVIOUS	
DIFFERENCE	
4.00	
4. COMPRESSORS OIL LEVEL GAUGE READING	
OIL LEVEL GAUGE READING BLEED SYSTEM PURGE SYSTEM	
RELIEF VALVE LUBE	
COMP #1 AMPS ON OFF	
COMP #2 AMPS ON OFF	
5. BUILDING	
1 · · 1	
DEHUMIDIFIER NEEDS CLEANING PAINTING	
6. SPECIAL NOTES	
o. Of LOIAL NOTES	
CUSTOMER SIGNATURE:	

	16 INITIALS) // ,
• • • • • • • • • • • • • • • • • • • •	EAN Mile RO	
LOCATED TOKK	STOW	
* LAG	SERVICE CHECK	LIST / MAD
1. PUMPS CONDITI	ION	
PUMP #1 - AN	MPS	PUMP #2 - AMPS
<u>A 7</u> 25	LAG	6.3 6.0
VOLTAGE GLANDS PACKING	<u> </u>	VOLTAGE 24/37/ GLANDS PACKING
LUBE UNIT		LUBE UNIT
TEST VALV	'ES	TEST VALVES
LEAD PUMP ON BOTH PUMPS ON 3. WET WELL GREASE BUILD-UP	OK OK OK OIL LEVEL BATTERY M SIMULATION - GAUGE IN INCHES OFF LAG ON OFF ALARM ON OFF FLOATS	HOUR METER OFF OFF DEBRIS
	HYPO PUMP pH READING	
ENZYME PUMP CL-2 READING	HYPO PUMP pH READING	CURRENT
ENZYME PUMP CL-2 READING	HYPO PUMP pH READING	CURRENT PREVIOUS
ENZYME PUMP CL-2 READING	HYPO PUMP pH READING	CURRENT
ENZYME PUMP CL-2 READING	HYPO PUMP pH READING	CURRENT PREVIOUS
ENZYME PUMP CL-2 READING FLOW METER READIN	HYPO PUMP pH READING	CURRENT PREVIOUS DIFFERENCE
ENZYME PUMP CL-2 READING FLOW METER READING FLOW METER READING	HYPO PUMP pH READING	CURRENT PREVIOUS DIFFERENCE READING
ENZYME PUMP CL-2 READING FLOW METER READING FLOW METER READING LOW METER READING	HYPO PUMP	CURRENT PREVIOUS DIFFERENCE
ENZYME PUMP CL-2 READING FLOW METER READING FLOW METER READING LEVEL BLEED SYSTEM RELIEF VALVE	HYPO PUMP	CURRENT PREVIOUS DIFFERENCE READING SYSTEM
ENZYME PUMP CL-2 READING FLOW METER READING FLOW METER READING LEVEL BLEED SYSTEM	HYPO PUMP	CURRENT PREVIOUS DIFFERENCE READING SYSTEM OFF
ENZYME PUMP CL-2 READING FLOW METER READING 4. COMPRESSORS OIL LEVEL BLEED SYSTEM RELIEF VALVE COMP #1 AMPS	HYPO PUMP	CURRENT PREVIOUS DIFFERENCE READING SYSTEM
ENZYME PUMP CL-2 READING FLOW METER READING 4. COMPRESSORS OIL LEVEL BLEED SYSTEM RELIEF VALVE COMP #1 AMPS COMP #2 AMPS 5. BUILDING	HYPO PUMP	CURRENT PREVIOUS DIFFERENCE READING SYSTEM OFF OFF
ENZYME PUMP CL-2 READING FLOW METER READING 4. COMPRESSORS OIL LEVEL BLEED SYSTEM RELIEF VALVE COMP #1 AMPS COMP #2 AMPS 5. BUILDING LIGHTS	HYPO PUMP pH READING IGS GAUGE PURGE LUBE ON ON SUMP PUMP	CURRENT PREVIOUS DIFFERENCE READING SYSTEM OFF OFF HEATER
ENZYME PUMP CL-2 READING FLOW METER READING 4. COMPRESSORS OIL LEVEL BLEED SYSTEM RELIEF VALVE COMP #1 AMPS COMP #2 AMPS 5. BUILDING LIGHTS	HYPO PUMP pH READING IGS GAUGE PURGE LUBE ON ON SUMP PUMP	CURRENT PREVIOUS DIFFERENCE READING SYSTEM OFF OFF

FERNCO SERVICES INC. 508-336-3222 70688 INITIALS D.W. DATE ___ STATION___MORGAN MILL RO. LOCATED / MAY STON L END SERVICE CHECK LIST LAG 1. PUMPS CONDITION PUMP_#1 - AMPS_ PUMP #2 - AMPS. VOLTAGE VOLTAGE **GLANDS GLANDS PACKING** PACKING **LUBE UNIT LUBE UNIT** TEST VALVES TEST VALVES _ 2. MOTOR CONTROL CENTER 2 6.5 PUMP #2 _____3667, 2 HOUR METERS PUMP #1 3609. **RUN LIGHTS** _ ALARM TEST ____ MANUAL TEST _ AUTO TEST ____ M/A OIL LEVEL GENERATOR TEST ___ _____ ANTI-FREEZE ______ BATTERY _____ HOUR METER ___ FUEL **BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES** LEAD PUMP ON _____ OFF_____1__ LAG ON _ BOTH PUMPS ON ___ __ ALARM ON _ 3. WET WELL GREASE BUILD-UP ______ FLOATS _____ DEBRIS _ NEEDS ENZYMES __ NEEDS CLEANING ______ HYPO PUMP ______ ENZYME PUMP ____ NEEDS HYPO CL-2 READING _____ ____ pH READING _ FLOW METER READINGS _____ CURRENT __ PREVIOUS ____ DIFFERENCE 4. COMPRESSORS OIL LEVEL **GAUGE READING** BLEED SYSTEM ___ PURGE SYSTEM _ RELIEF VALVE _____ LUBE _ COMP #1 AMPS ON ____ OFF COMP #2 AMPS ___ ON __ OFF 5. BUILDING LIGHTS ___ SUMP PUMP _ HEATER **DEHUMIDIFIER NEEDS CLEANING _** PAINTING

6. SPECIAL NOTES

FERNCO SERVICES INC. 508-336-3222	70704
DATE 9-30-/6 INITIALS 0 - 1	70734
STATION MORCAN MILL RO.	
LOCATED TOHN STOW	
SERVICE CHECK LIST (EAD)	
1. PUMPS CONDITION PUMP #1 - AMPS // 6/7 PUMP #2 - AMPS 6	7
PUMP #1 - AMPS // 1/6/7 PUMP #2 - AMPS 6 .	5
37	
VOLTAGE $\frac{274}{7}$ VOLTAGE $\frac{244}{7}$	/ %
GLANDS GLANDS	
PACKING PACKING LUBE UNIT LUBE UNIT	
LUBE UNIT LUBE UNIT TEST VALVES TEST VALVES	
TEST VALVES	
2. MOTOR CONTROL CENTER2	C
HOUR METERS PUMP #1 3764. 155. PUMP #2 3669.	
RUN LIGHTS ALARM TEST SK	
GENERATOR TEST OIL LEVEL AUTO TEST ANTI-FREEZE	1
FUEL BATTERY HOUR METER	1
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES	**************************************
LEAD PUMP ON OFFLAG ON OFF	
BOTH PUMPS ON OFF ALARM ON OFF	
3. WET WELL	
GREASE BUILD-UP FLOATS OK DEBRIS	5
NEEDS CLEANING	
ENZYME PUMP HYPO PUMP NEEDS HYPO	
CL-2 READING pH READING	
FLOW METER READINGS	
CURRENT PREVIOUS	
DIFFERENCE	
4. COMPRESSORS	
OIL LEVEL GAUGE, READING	· .
BLEED SYSTEM PURGE SYSTEM LUBE	
COMP #1 AMPS ON OFF	
COMP #2 AMPS ON OFF	
5. BUILDING	
LIGHTS SUMP PUMP HEATER	
WE ALLOWED DEFILE OF THE NEEDS CLEANING PAINTING	POP EVENDAGO
6. SPECIAL NOTES WEEK TO DE TO CLEAR PUPE POLINA	INS ISNI DOLL
DEHUMIDIFIER NEEDS CLEANING PAINTING # I HAVE BEEN SWITCHING KERD FROM # +0 #5 6. SPECIAL NOTES WEEK 50 BS TO CLEAR PUPS. BUMP. AMPS DOWN ANYMORE. PUPS NEED CLEARING	16.
CUSTOMER SIGNATURE:	

ATION OSTEND ST.	
CATED	
SERVICE CH	ECK LIST
. PUMPS CONDITION	24.4
PUMP #1 - AMPS みん つつ	PUMP #2 - AMPS 39 . 6
VOLTAGE 24/3 1P	VOLTAGE 243 19
GLANDS	GLANDS
PACKING	PACKING
LUBE UNIT	LUBE UNIT
TEST VALVES	TEST VALVES
. MOTOR CONTROL CENTER	,
HOUR METERS PUMP #1	PUMP #2 ///
RUN LIGHTSOK	ALARM TEST OK 1+2
MANUAL TEST	AUTO TESTOK
GENERATOR TEST/	ANTI-FREEZE
FUEL BATTERY	HOUR METER
BUBBLETROL SYSTEM SIMULATION - GAUGE IN I	
LEAD PUMP ON OFF LAC	
BOTH PUMPS ON OFF ALA	ARM ON OFF
. WET WELL	
	OK DEBRIS SOME
NEEDS CLEANING //O NEEDS NEEDS CLEANING	
ENZYME PUMP HYPO PUMP	1
CL-2 READING pH R	1
FLOW METER READINGS	
	CURRENT
	PREVIOUS
	DIFFERENCE
COMPRESSORS	
OIL LEVEL	GAUGE READING
OIL LEVEL	PURGE SYSTEM
OIL LEVEL	PURGE SYSTEM
OIL LEVEL	PURGE SYSTEM LUBE OFF
OIL LEVEL	PURGE SYSTEM
OIL LEVEL	PURGE SYSTEM LUBE OFF
OIL LEVEL / BLEED SYSTEM / RELIEF VALVE / COMP #1 AMPS /	PURGE SYSTEM

/ \	INITIALS
TATION USTEND	
OCATED OHNSTO	ひと
	SERVICE CHECK LIST
I. PUMPS CONDITION PUMP #1 - AMPS	22,4
FUNIF #1 - AIVIPS	PUMP #2 - AMPS 2/1 30 / /
VOLTAGE	241 y VOLTAGE 241 y
GLANDS	GLANDS
PACKING LUBE UNIT	PACKING
TEST VALVES	LUBE UNIT TEST VALVES
P. MOTOR CONTROL CE HOUR METERS PUMP #1	.17.
RUN LIGHTSOK	PUMP #2
MANUAL TEST QK	AUTO TEST
GENERATOR TEST	OIL LEVEL ANTI-FREEZE
FUEL	BATTERY HOUR METER
BUBBLETROL SYSTEM SIMUL	•
LEAD PUMP ON/ C	OFF LAG ON OFF
· · · · · · · · · · · · · · · · · · ·	
BOTH PUMPS ON C	OFF ALARM ON OFF
(OFF ALARM ON OFF
. WET WELL	· · · · · · · · · · · · · · · · · · ·
WET WELL GREASE BUILD-UP Some	FLOATS OK DEBRIS STME
・WET WELL GREASE BUILD-UP <u>Came</u> NEEDS CLEANING	FLOATS OK DEBRIS SOME
WET WELL GREASE BUILD-UP Some NEEDS CLEANING	FLOATS OK DEBRIS SOME NEEDS ENZYMES 1
. WET WELL GREASE BUILD-UP	FLOATS OK DEBRIS STIFE NEEDS ENZYMES NEEDS HYPO
GREASE BUILD-UP	FLOATS OK DEBRIS STIFE NEEDS ENZYMES NEEDS HYPO
GREASE BUILD-UP Some NEEDS CLEANING SENZYME PUMP CL-2 READING SELOW METER READINGS	FLOATS OK DEBRIS STIFE NEEDS ENZYMES NEEDS HYPO PH READING CURRENT PREVIOUS
WET WELL GREASE BUILD-UP	FLOATS OK DEBRIS STIFE NEEDS ENZYMES NEEDS HYPO PUMP NEEDS HYPO CURRENT
WET WELL GREASE BUILD-UP	FLOATS OK DEBRIS STIFE NEEDS ENZYMES NEEDS HYPO PH READING CURRENT PREVIOUS
GREASE BUILD-UP Some NEEDS CLEANING SENZYME PUMP CL-2 READING FLOW METER READINGS	FLOATS OK DEBRIS STIFE NEEDS ENZYMES NEEDS HYPO PH READING CURRENT PREVIOUS DIFFERENCE
. WET WELL GREASE BUILD-UP	FLOATS OK DEBRIS STIFE NEEDS ENZYMES NEEDS HYPO PH READING CURRENT PREVIOUS
COMPRESSORS OIL LEVEL BREASE BUILD-UP Some	FLOATS OK DEBRIS STIFE NEEDS ENZYMES NEEDS HYPO PH READING CURRENT PREVIOUS DIFFERENCE GAUGE READING
COMPRESSORS OIL LEVEL BLEED SYSTEM RELIEF VALVE	FLOATS OK DEBRIS STIFE NEEDS ENZYMES NEEDS HYPO PUMP NEEDS HYPO PUMP PH READING CURRENT PREVIOUS DIFFERENCE GAUGE READING PURGE SYSTEM
. WET WELL GREASE BUILD-UP	FLOATS OF DEBRIS STIFE NEEDS ENZYMES NEEDS HYPO PH READING CURRENT PREVIOUS DIFFERENCE GAUGE READING LUBE ON OFF
. WET WELL GREASE BUILD-UP	FLOATS OF DEBRIS STORE NEEDS ENZYMES NEEDS HYPO PH READING CURRENT PREVIOUS DIFFERENCE GAUGE READING PURGE SYSTEM LUBE ON OFF
WET WELL GREASE BUILD-UP	FLOATS OK DEBRIS STORE NEEDS ENZYMES NEEDS HYPO PUMP NEEDS HYPO PUMP PREADING PREVIOUS DIFFERENCE GAUGE READING PURGE SYSTEM LUBE ON OFF ON OFF
WET WELL GREASE BUILD-UP	FLOATS OK DEBRIS STORE NEEDS ENZYMES NEEDS HYPO PUMP NEEDS HYPO PUMP PREADING CURRENT PREVIOUS DIFFERENCE GAUGE READING PURGE SYSTEM LUBE ON OFF ON OFF

E 9-16-16	NITIALS
TION OSTEND ST.	
CATED JOHNSTON	
	CHECK LIST
PUMPS CONDITION	4 .
PUMP #1 - AMPS	/ PUMP #2 - AMPS
VOLTAGE 242	VOLTAGE 342 13
1	1
GLANDS	_ GLANDS
PACKING	PACKING
LUBE UNIT	LUBE UNIT
TEST VALVES	_ TEST VALVES
MOTOR CONTROL CENTER	
HOUR METERS PUMP #1//p	DUMP #0
RUN LIGHTSOK	
MANUAL TESTOK	ALARM TEST OK 1+1
,	AUTO TEST
	/EL ANTI-FREEZE
	RY HOUR METER
BUBBLETROL SYSTEM SIMULATION - GAUG	
1 1	OFF
BOTH PUMPS ON OFF	ALARM ON OFF
WET WELL	
_	CLEANED OKDEBRIS SOME
-	NEEDS ENZYMES
ENZYME PUMP HYPO F	1
	pH READING
FLOW METER READINGS	1
	CURRENT
	PREVIOUS
	DIFFERENCE
COMPRESSORS	
OIL LEVEL	. GAUGE READING
BLEED SYSTEM	PURGE SYSTEM
RELIEF VALVE	LUBE
COMP #1 AMPS	. ON OFF
	. ON OFF
COMP #2 AMPS	(
·	
BUILDING	
BUILDING LIGHTS SUMP P	PUMP HEATER CLEANING PAINTING

ate <u>9-23-/6</u>	INITIALS	- U /V
ration <u>OSTEUD</u>		
CATED TOMUST	<u> </u>	
	SERVICE CHE	ECK LIST
. PUMPS CONDITION	- 6	
PUMP #1 - AMPS _	<u> 23,7</u>	PUMP #2 - AMPS
***************************************	<u> 23.3</u>	
	21.2.16	24-18
VOLTAGE _	<u> 242 %</u>	VOLTAGE 242 19
GLANDS _		GLANDS
PACKING _		PACKING
LUBE UNIT _		LUBE UNIT
TEST VALVES _		TEST VALVES
· · · · · · · · · · · · · · · · · · ·		
MOTOR CONTROL (17.	1/2
HOUR METERS PUMP #1	N IX	PUMP #2
RUN LIGHTS OF	,	ALARM TEST <u>OR</u>
WANDAL ILOI	1/2	AUTO TEST
GENERATOR TEST	,	ANTI-FREEZE
FUEL	BATTERY	HOUR METER
BUBBLETROL SYSTEM SIM		
LEAD PUMP ON		
BOTH PUMPS ON	OFF ALAR	RM ON OFF
WET WELL	:	
WET WELL	MAY FLOATS	OK DEBRIS Some
	NEEDS	1
ENZYME PUMP		1
CL-2 READING	ph REA	ADING
FLOW METER READINGS	•	(CLIDETE T
-		CURRENT
_	<i>i</i>	PREVIOUS
		DIFFERENCE
COMPRESSORS		
COMPRESSORS	1	ALIOE BEADING .
OIL LEVEL	i	SAUGE READING
BLEED SYSTEM		PURGE SYSTEM
RELIEF VALVE	I .	UBE
COMP #1 AMPS	1	ONOFF
COMP #2 AMPS	0	ON OFF
	•	1
BUILDING	0144551445	1
		HEATER
LIGHTS	SUMP PUMP NEEDS CLEANI	1

STATION RECYCLE	RD.	•	
OCATED JOHNSTON			
S	ERVICE CHE	ECK LIST	
. PUMPS CONDITION	20		10
PUMP #1 - AMPS	5-720	PUMP #2 - AMPS	58.10
 <u></u>	uz.		***
VOLTAGE	60 HZ	VOLTAGE	60H2
GLANDS		GLANDS	
PACKING		PACKING	
LUBE UNIT		LUBE UNIT	
TEST VALVES		TEST VALVES	
MOTOR CONTROL CE	NTER ~		
HOUR METERS PUMP #1		7PUMP #267+	<u> </u>
RUN LIGHTSOK_		_ ALARM TEST	nk .
MANUAL TESTOK		AUTO TEST	OK
GENERATOR TEST	OIL LEVEL	ANTI-FREEZI	i
FUEL	BATTERY	HOUR METE	3
BUBBLETROL SYSTEM SIMUL LEAD PUMP ON	ATION - GAUGE IN IN(DFF_/.5 LAG (CHES S	, 0
	OFF LAG (7,8
DO1111 OMIL 2 ON	DFF <u>a·</u> ALAR		<u>~~~~</u>
WET WELL			8
GREASE BUILD-UP	FLOATS	DEBRIS	iTTLE
NEEDS CLEANING			
ENZYME PUMP			
CL-2 READING	pH REA	ADING	
FLOW METER READINGS	,	1	,
		CURRENT	
~·		PREVIOUS	
		DIFFERENCE	
COMPRESSORS			
	G	AUGE READING)	
BLEED SYSTEM		URGE SYSTEM	
RELIEF VALVE		JBE	
COMP #1 AMPS		N OFF	
COMP #2 AMPS	0	N OFF	
BUILDING		•	
LIGHTS OK	CLIMAD DUMAD	, 1/2	カギビ
DEHIMIDIEIED 41/	NEEDS OF EARIN	HEATER	1/0
	INEEDO ULEANII	VGAZ D_ PAINTING	

TE9-15.	-16	INITIALS	0.1/.	
		RD.	•	ATION # 1
ATED	YN STO	<i>J</i>		•
		ERVICE CHEC	K LIST	
PUMPS COND		62.30		ma 30
PUMP #1	- AMPS	61.30	PUMP #2 - AMPS	58.30
		ca HZ	-)-12
VOLTAG	GE	60 HZ	VOLTAGE	60 1-1Z
GLAND			GLANDS	
PACKIN			PACKING	
LUBE L			LUBE UNIT	
TEST V	'ALVES		TEST VALVES	
MOTOR CONTI	ROL CEN	NTER	,	سم ۱
HOUR METERS P	UMP #16	1.1 .2	PUMP #2 <u>68. (</u>	
RUN LIGHTS	<u> </u>		ALARM TEST	
MANUAL TEST	<u> </u>		AUTO TEST	
GENERATOR TEST			·· ANTI-FREEZE	
FUEL	•,	BATTERY	HOUR METER	
BUBBLETROL SYS	TEM SIMULA	TION - GAUGE IN INCHI	=s	_
LEAD PUMP ON _	OF <u>څ</u>	F / · S LAG ON	5. 5 OFF 3	
	e 5	` O ALADAA	. 0	2
BOTH PUMPS ON _	2. OF	T_Z ALAHIVI (ON_{-}^{B} OFF -2	, —
	<u>ی. </u>	Z ALAHM C	ON B. OFF /	, —
/ET WELL		۷	on benum .3	
VET WELL GREASE BUILD-UP	<u></u>	FLOATS	DEBRIS 4	ittle
/ET WELL GREASE BUILD-UP NEEDS CLEANING	No	FLOATS NEEDS EN	DEBRIS L	
VET WELL GREASE BUILD-UP NEEDS CLEANING	No	FLOATS NEEDS EN	DEBRIS 4	
VET WELL GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP		FLOATS NEEDS EN	DEBRIS	
VET WELL GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP	No No	FLOATS NEEDS EN HYPO PUMP	DEBRIS	
VET WELL GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING	No No	FLOATS NEEDS EN HYPO PUMP pH READII	DEBRIS	
VET WELL GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING	No No	FLOATS NEEDS EN HYPO PUMP pH READII	DEBRIS	
'ET WELL GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING	No No	L FLOATS NEEDS EN PH READII	DEBRIS	
VET WELL GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER REAL	DINGS	L FLOATS NEEDS EN PH READII	DEBRIS	
WET WELL GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER READING COMPRESSOR	DINGS	L FLOATS NEEDS EN PH READII	DEBRIS	
VET WELL GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER READING OMPRESSOR OIL LEVEL	DINGS	L FLOATS NEEDS EN PH READII	DEBRIS DEBRIS NEEDS HYPO NG CURRENT PREVIOUS DIFFERENCE GE READING	
VET WELL GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER READING OMPRESSOR OIL LEVEL BLEED SYSTEM	DINGS	L FLOATS NEEDS EN PH READII	DEBRIS NZYMES NEEDS HYPO NG CURRENT PREVIOUS DIFFERENCE GE READING GE SYSTEM	
GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER READING OMPRESSOR OIL LEVEL BLEED SYSTEM RELIEF VALVE	DINGS	FLOATS NEEDS EN PH READII	DEBRIS NZYMES DEBRIS NEEDS HYPO NG CURRENT PREVIOUS DIFFERENCE GE READING GE SYSTEM E	
GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER READING OMPRESSOR OIL LEVEL BLEED SYSTEM RELIEF VALVE COMP #1 AMPS	DINGS	FLOATS NEEDS EN PH READII GAU PURE LUBE ON ON	DEBRIS DEBRIS NEEDS HYPO NG CURRENT PREVIOUS DIFFERENCE GE READING GE SYSTEM OFF	
GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER READING COMPRESSOR OIL LEVEL BLEED SYSTEM RELIEF VALVE	DINGS	FLOATS NEEDS EN PH READII GAU PURE LUBE ON ON	DEBRIS NZYMES DEBRIS NEEDS HYPO NG CURRENT PREVIOUS DIFFERENCE GE READING GE SYSTEM E	
GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER READING OIL LEVEL BLEED SYSTEM RELIEF VALVE COMP #1 AMPS COMP #2 AMPS UILDING	DINGS	GAU GAU GAU CON CON CON CON CON CON CON CO	DEBRIS	
GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER READING OIL LEVEL BLEED SYSTEM RELIEF VALVE COMP #1 AMPS COMP #2 AMPS SUIL DIN G LIGHTS	DINGS s ok	FLOATS NEEDS EN PH READII	DEBRIS DEBRIS NEEDS HYPO NG CURRENT PREVIOUS DIFFERENCE GE READING GE SYSTEM OFF	off

E 9-22-16	INITIALS
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TION <u>KECYCLE</u>	120 STATION
CATED JOHUSTO	المحادث المحاد
	SERVICE CHECK LIST
PUMPS CONDITION PUMP #1 - AMPS	6/.20 PUMP #2 - AMPS 58.20
PUMP #1 - AIVIPS	PUMP #2 - AMPS 38.
VOLTAGE	60 HZ VOLTAGE 60 HZ
. GLANDS	GLANDS
PACKING	PACKING
LUBE UNIT	LUBE UNIT
TEST VALVES	TEST VALVES
MOTOR CONTROL CE	NTED
HOUR METERS PUMP #1	
RUN LIGHTS OK	ALARM TEST
MANUAL TEST OK	
GENERATOR TEST	
•	a de la companya del companya de la companya del companya de la co
FUEL	BATTERY HOUR METER
FUELSUBBLETROL SYSTEM SIMULA	BATTERY HOUR METERATION - GAUGE IN INCHES
BUBBLETROL SYSTEM SIMULA	LATION - GAUGE IN INCHES OFF 1.5 OFF 2.5
BUBBLETROL SYSTEM SIMULA	LATION - GAUGE IN INCHES OFF 1.5 OFF 2.5
BUBBLETROL SYSTEM SIMULA	ATION - GAUGE IN INCHES OFF 1.5 LAG ON 5.5 OFF 2.5
BUBBLETROL SYSTEM SIMULA LEAD PUMP ON 5.5 CO BOTH PUMPS ON 5.5 CO /ET WELL	ATION - GAUGE IN INCHES OFF 1.5 LAG ON 5.5 OFF 2.5 OFF 7.6 OFF 7.6 LAG ON 8.3 OFF 7.6 LAG ON 8.3 LAG ON 8.3 OFF 7.6 LAG ON 8.3 LAG ON 8.3 OFF 7.6 LAG ON 8.3 LAG ON
BUBBLETROL SYSTEM SIMULA LEAD PUMP ON	ATION - GAUGE IN INCHES OFF 1.5 LAG ON 5.5 OFF 2.5 OFF 7.6 OF
BUBBLETROL SYSTEM SIMULA LEAD PUMP ON	ATION - GAUGE IN INCHES OFF _1.5 LAG ON _5.5 OFF _2.5 OFF _2.0 ALARM ON _8.3 OFF _7.6 OFF _2.0 DEBRIS
BUBBLETROL SYSTEM SIMULA LEAD PUMP ON	ATION - GAUGE IN INCHES OFF _1.5
BUBBLETROL SYSTEM SIMULA LEAD PUMP ON	ATION - GAUGE IN INCHES OFF _1.5 LAG ON _5.5 OFF _2.5 OFF _2.0 ALARM ON _8.3 OFF _7.6 OFF _2.0 DEBRIS
BUBBLETROL SYSTEM SIMULATION SIMU	ATION - GAUGE IN INCHES OFF _1.5
BUBBLETROL SYSTEM SIMULA LEAD PUMP ON	ATION - GAUGE IN INCHES OFF _1.5
BUBBLETROL SYSTEM SIMULA LEAD PUMP ON	ATION - GAUGE IN INCHES OFF LAG ON OFF OFF OFF ALARM ON OFF OFF
BUBBLETROL SYSTEM SIMULA LEAD PUMP ON	ATION - GAUGE IN INCHES OFF _1.5
BUBBLETROL SYSTEM SIMULATION SIMU	ATION - GAUGE IN INCHES OFF LAG ON OFF OFF OFF ALARM ON OFF OFF
BUBBLETROL SYSTEM SIMULATION SIMU	ATION - GAUGE IN INCHES OFF LAG ON OFF OFF OFF ALARM ON OFF OFF
BUBBLETROL SYSTEM SIMULA LEAD PUMP ON	ATION - GAUGE IN INCHES OFF _1.5
BUBBLETROL SYSTEM SIMULA LEAD PUMP ON	ATION - GAUGE IN INCHES OFF _1.5
BUBBLETROL SYSTEM SIMULATION SIMU	ATION - GAUGE IN INCHES OFF LAG ON OFF
BUBBLETROL SYSTEM SIMULA LEAD PUMP ON	ATION - GAUGE IN INCHES OFF LAG ON OFF OFF OFF
BUBBLETROL SYSTEM SIMULA LEAD PUMP ON	ATION - GAUGE IN INCHES OFF LAG ON OFF
BUBBLETROL SYSTEM SIMULA LEAD PUMP ON	ATION - GAUGE IN INCHES OFF 1.5 LAG ON 5.0 OFF 7.6 OFF 2.0 ALARM ON 8.0 OFF 7.6 PLOATS DEBRIS LITTLE ON NEEDS ENZYMES HYPO PUMP NEEDS HYPO PH READING CURRENT PREVIOUS DIFFERENCE GAUGE READING PURGE SYSTEM LUBE ON OFF ON OFF
BUBBLETROL SYSTEM SIMULA LEAD PUMP ON	ATION - GAUGE IN INCHES OFF LAG ON OFF

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S	SERVICE CHECK LIST	
PUMPS CONDITION	53	5
PUMP #1 - AMPS	57. PUMP #2 - AMPS 54.	
VOLTAGE	60 HZ VOLTAGE 60 HZ	
GLANDS	GLANDS	
PACKING	PACKING	
LUBE UNIT	LUBE UNIT	
TEST VALVES	TEST VALVES	
MOTOR CONTROL CE	ENTER o	•
HOUR METERS PUMP #1	PUMP #2	.6
RUN LIGHTSOK	7.201.101.1201	
MANUAL TESTOK		
GENERATOR TEST	*	
FUEL'	BATTERY HOUR METER	
DUDD! ====.		
BUBBLETROL SYSTEM SIMUL	LATION - GAUGE IN INCHES	
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LEAD PUMP ON5.5	OFF 1.5 LAG ON 5.5 OFF 2.0 OFF 7.5 OFF 7.5	
BOTH PUMPS ON 5.5	OFF 1.5 LAG ON 5.5 OFF 2.	
LEAD PUMP ON	OFF 1.5 LAG ON 5.5 OFF 2.0 OFF 2.0 OFF 3.0 OFF 3.0 OFF 3.0 OFF 3.0	
BOTH PUMPS ON 5.5 ET WELL GREASE BUILD-UP	OFF 1.5 LAG ON 5.5 OFF 2.6 OF	
BOTH PUMPS ON 5.5 ET WELL GREASE BUILD-UP 100 NEEDS CLEANING 100	OFF 1.5 LAG ON 5.5 OFF 2.0 OFF 2.0 ALARM ON 8.0 OFF 7.6 ANW 8 DEBRIS 47776	
BOTH PUMPS ON 5.5 ET WELL GREASE BUILD-UP	OFF 1.5 LAG ON 5.5 OFF 2.0 OFF 2.0 ALARM ON 8.0 OFF 7.5 LOW 8 DEBRIS 2.777/E NEEDS ENZYMES HYPO PUMP NEEDS HYPO	
BOTH PUMPS ON 5.5 ET WELL GREASE BUILD-UP 1/0 NEEDS CLEANING 1/0 ENZYME PUMP	OFF 1.5 LAG ON 5.5 OFF 2.0 OFF 2.0 ALARM ON 8.0 OFF 7.6 ANW 8 DEBRIS 47776	
BOTH PUMPS ON 5.5 ET WELL GREASE BUILD-UP 1/0 NEEDS CLEANING 1/0 ENZYME PUMP 1/0 CL-2 READING 1/0	OFF 1.5 LAG ON 5.5 OFF 2.0 OFF 2.0 ALARM ON 8.0 OFF 7.5 LOW 8 DEBRIS 2.777/E NEEDS ENZYMES HYPO PUMP NEEDS HYPO	
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ET WELL GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER READINGS	OFF 1.5 LAG ON 5.5 OFF 2.0 OFF 2.0 ALARM ON 8.0 OFF 7.5 ANW 8 DEBRIS 1776 NEEDS ENZYMES NEEDS HYPO PH READING CURRENT PREVIOUS	
ET WELL GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER READINGS	OFF 1.5 LAG ON 5.5 OFF 2.0 OFF 2.0 ALARM ON 8.0 OFF 7.5 ANW 8 DEBRIS 1776 NEEDS ENZYMES NEEDS HYPO PH READING CURRENT PREVIOUS DIFFERENCE	
ET WELL GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER READINGS MPRESSORS OIL LEVEL	OFF 1.5 LAG ON 5.5 OFF 2.0 OFF 2.0 ALARM ON 8.0 OFF 7.5 ANW 8 DEBRIS 2.77725 NEEDS ENZYMES NEEDS HYPO PH READING CURRENT PREVIOUS DIFFERENCE GAUGE READING	
ET WELL GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER READINGS OMPRESSORS OIL LEVEL BLEED SYSTEM	OFF 1.5 LAG ON 5.5 OFF 2.6 OFF 2.0 ALARM ON 8.0 OFF 7.5 ANW 8 DEBRIS 2.777.6 NEEDS ENZYMES HYPO PUMP NEEDS HYPO PH READING PH READING DIFFERENCE GAUGE READING PURGE \$YSTEM	
ET WELL GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER READINGS OIL LEVEL BLEED SYSTEM RELIEF VALVE	OFF 1.5 LAG ON 5.5 OFF 2.0 OFF 2.0 ALARM ON 8.0 OFF 7.5 ANW 8 OFF 7.5 DEBRIS 2.77725 DEBRIS 2.77725 NEEDS ENZYMES NEEDS HYPO PH READING PH READING DIFFERENCE GAUGE READING PURGE SYSTEM LUBE LUBE	
ET WELL GREASE BUILD-UP NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER READINGS MPRESSORS OIL LEVEL BLEED SYSTEM RELIEF VALVE COMP #1 AMPS	OFF 1.5 LAG ON 5.5 OFF 2.0 OFF 2.0 ALARM ON 8.0 OFF 7.5 ANW 8 PLOATS DEBRIS CITTLE NEEDS ENZYMES NEEDS HYPO PH READING PREVIOUS DIFFERENCE GAUGE READING PURGE \$YSTEM LUBE ON OFF	
BOTH PUMPS ON	OFF 1.5 LAG ON 5.5 OFF 2.0 OFF 2.0 ALARM ON 8.0 OFF 7.5 ANW 8 OFF 7.5 DEBRIS 2.77725 DEBRIS 2.77725 NEEDS ENZYMES NEEDS HYPO PH READING PH READING DIFFERENCE GAUGE READING PURGE SYSTEM LUBE LUBE	
BOTH PUMPS ON	OFF	
DILDING	OFF 1.5 LAG ON 5.5 OFF 2.0 OFF 2.0 ALARM ON 8.0 OFF 7.5 ANW 8 PLOATS DEBRIS CITTLE NEEDS ENZYMES NEEDS HYPO PH READING PREVIOUS DIFFERENCE GAUGE READING PURGE \$YSTEM LUBE ON OFF	

FERNCO SERVICES INC. 508-336-3222 69787 9-2-16 INITIALS_D.//. DATE ___ NER OHUSTON LOCATED SERVICE CHECK LIST 1. PUMPS CONDITION PUMP #1 - AMPS PUMP #2 - AMPS **VOLTAGE VOLTAGE GLANDS GLANDS PACKING PACKING** LUBE UNIT **LUBE UNIT TEST VALVES TEST VALVES** 2. MOTOR CONTROL CENTER 7 HOUR METERS PUMP#1 __ うこ16/・ RUN LIGHTS ____OK ALARM TEST ____ MANUAL TEST ___ AUTO TEST _ GENERATOR TEST ____ _ OIL LEVEL _ ____ ANTI-FREEZE _ BATTERY 'HOUR METER **BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES** LEAD PUMP ON _ __1___ LAG ON _ OFF_ **OFF** BOTH PUMPS ON ___ ___ ALARM ON . 3. WET WELL GREASE BUILD-UP Sone FLOATS OK DEBRIS Some NEEDS ENZYMES **NEEDS CLEANING __** ENZYME PUMP __ ____ HYPO PUMP ____ NEEDS HYPO CL-2 READING _____ _____ pH READING __ FLOW METER READINGS _ CURRENT PREVIOUS _ DIFFERENCE 4. COMPRESSORS OIL LEVEL _____ **GAUGE READING** BLEED SYSTEM __ PURGE SYSTEM _ RELIEF VALVE _ LUBE _ COMP #1 AMPS _ _ OFF COMP #2 AMPS ___ ON _ OFF. 5. BUILDING SUMP PUMP. HEATER DEHUMIDIFIER NEEDS CLEANING _ _ PAINTING _

6. SPECIAL NOTES

DATE	8-16	INITIALS_	ON.	:
STATION	RIVER	DR.	·	
OCATED	JOHNST	TO21		
4	Si	ERVICE CHEC	CK LIST	
	CONDITION	6		4
F	PUMP #1 - AMPS	/3.7	PUMP #2 - AMPS	,
		/3.		
	VOLTAGE	245 18	VOLTAGE 245	8
	GLANDS	4	VOLTAGE <u>945</u>	-
	PACKING		GLANDS	-
	LUBE UNIT		PACKING	•
	TEST VALVES		LUBE UNIT	
			TEST VALVES	
MOTOR C	CONTROL CE	NTER	ל	-
	TERS-PUMP#1	15/6/17	PUMP #2 28648.3	/3.
RUN LIGH	TS <i>OK</i>		ALARM TESTOK	
MANUAL T	ESTOK_		AUTO TEST	
	OR TEST <i> /_</i> _	OIL LEVEL	ANTI-FREEZE	
FUEL	·\	BATTERY	HOUR METER	
		TION - GAUGE IN INCHE		
LEAD PUM		FFLAG ON		
BOTH PUM	IPS ONOF	FF ALARM O	OFF	
. WET WEL				
		51.04T0 O/	Z DEBRIS Some	
NEEDS CL	FANING AA	FLOAIS	DEBRIS SOME	
	IIMP)	NEEDS EN	NZYMES	
	INIC	HYPO PUMP	NEEDS HYPO	
CI -2 READ		PH READIN	NG	
CL-2 READ	FR READINGS		,	
CL-2 READ	ER READINGS	1	CURRENT	
CL-2 READ	ER READINGS	i	CURRENT	
CL-2 READ	ER READINGS		PREVIOUS	
CL-2 READ	ER READINGS			
CL-2 READ	ER READINGS		PREVIOUS	
CL-2 READ FLOW MET	SSORS		PREVIOUS DIFFERENCE	
CL-2 READ FLOW MET	SSORS	GAUG	PREVIOUS DIFFERENCE GE READING	
CL-2 READ FLOW MET COMPRES OIL LEVEL . BLEED SYS	SSORS	GAUG	PREVIOUS DIFFERENCE GE READING GE SYSTEM	
CL-2 READ FLOW MET COMPRES OIL LEVEL . BLEED SYS RELIEF VAL	SSORS	GAUG PURG	PREVIOUS DIFFERENCE GE READING GE SYSTEM	
CL-2 READ FLOW MET COMPRES OIL LEVEL . BLEED SYS RELIEF VAL COMP #1 AI	SSORS STEM WE	GAUG PURG LUBE ON	PREVIOUS DIFFERENCE GE READING GE SYSTEM	
CL-2 READ FLOW MET COMPRES OIL LEVEL . BLEED SYS RELIEF VAL COMP #1 AI COMP #2 AI	SSORS STEM WE MPS	GAUG PURG LUBE ON	PREVIOUS DIFFERENCE GE READING GE SYSTEM OFF	
CL-2 READ FLOW MET COMPRES OIL LEVEL . BLEED SYS RELIEF VAL COMP #1 AI COMP #2 AI	SSORS STEM WE MPS	GAUG PURG LUBE ON _	PREVIOUS DIFFERENCE GE READING GE SYSTEM OFF OFF	
CL-2 READ FLOW MET COMPRES OIL LEVEL BLEED SYS RELIEF VAL COMP #1 AI COMP #2 AI BUILDING LIGHTS	SSORS STEM	GAUG PURG LUBE ON _ ON _	PREVIOUS DIFFERENCE GE READING GE SYSTEM OFF OFF HEATER	
CL-2 READ FLOW MET COMPRES OIL LEVEL BLEED SYS RELIEF VAL COMP #1 AI COMP #2 AI BUILDING LIGHTS	SSORS STEM	GAUG PURG LUBE ON _	PREVIOUS DIFFERENCE GE READING GE SYSTEM OFF OFF HEATER	
CL-2 READ FLOW MET COMPRES OIL LEVEL BLEED SYS RELIEF VAL COMP #1 AI COMP #2 AI BUILDING LIGHTS	SSORS STEM	GAUG PURG LUBE ON _ ON _	PREVIOUS DIFFERENCE GE READING GE SYSTEM OFF OFF HEATER HEATER	

ATE 9-16-16	INITIALS	» » »
TATION RIVER	Da.	
DOMNSTO	ンシ	
s	ERVICE CHECK	LIST
. PUMPS CONDITION	13.3	, - 3
PUMP #1 - AMPS	13.1	PUMP #2 - AMPS
,	212 18	
VOLTAGE	042 W	VOLTAGE <u>242 17</u>
GLANDS		GLANDS
PACKING		PACKING
LUBE UNIT		LUBE UNIT
TEST VALVES		TEST VALVES
MOTOR CONTROL CE	NTER ()	~
HOUR METERS DUMP #4	20124.1 19.1	PUMP #2 28663.71 15.4
RUN LIGHTSOK	 _	ALARM TEST OK
MANUAL TEST		AUTO TECT //
GENERATOR TEST	OIL LEVEL^	ANTI-FREEZE
		HOUR METER
BUBBLETROL SYSTEM SIMULA	· — -	
LEAD PUMP ONO	OFFLAG ON _	OFF
BOTH PUMPS ONO	FF ALARM ON	OFF
WET WELL		
GREASE BUILD-UP	LE FLOATS CLEAR	150 OK DEBRIS _ 87ME
NEEDS CLEANING		
ENZYME PUMP		
CL-2 READING		
FLOW METER READINGS		
		CURRENT
		PREVIOUS
		DIFFERENCE
COMPRESSORS	•	
OIL LEVEL	GALIGE	READING
DI SED OVOTENA		SYSTEM
		9,012.00
20112	_ _	OFF
COMP #2 AMPS	ON	OFF
		1
BUILDING	CLINAD DUMAD	1
LIGHTS		PAINTING
DEHUMIDIFIER	NEEDS CLEANING	TAIN THE
	NEEDS CLEANING	TAINTING

DATE 9-23-6 INITIALS O // STATION RIVER OR SERVICE CHECK LIST 1. PUMPS CONDITION PUMP #1 - AMPS	508-336-3222	7069
SERVICE CHECK LIST 1. PUMPS CONDITION PUMP #1 - AMPS	DATE9-23-16 INITIALS	000
SERVICE CHECK LIST 1. PUMPS CONDITION PUMP #1 - AMPS	,	
SERVICE CHECK LIST 1. PUMPS CONDITION PUMP #1 - AMPS	Tallian	
1. PUMP #1 - AMPS		
VOLTAGE GLANDS GLANDS PACKING LUBE UNIT TEST VALVES 2. MOTOR CONTROL CENTER HOUR METERS PUMP #1 FULL MANUAL TEST BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES LEAD PUMP 90 GREASE BUILD-UP SOME WET WELL GREASE BUILD-UP SOME MADUAL TEST NEEDS CLEANING PLOY DEBRIS NEEDS LEADING FLOW METER READINGS OIL LEVEL GREASE BUILD-UP SOME METER PUMP HYPO PUMP NEEDS ENZYMES DEBRIS CURRENT PREVIOUS DIFFERENCE ON OFF GAUGE READING PURGE SYSTEM RELIEF VALVE COMP #1 AMPS ON OFF ON OFF COMP #2 AMPS ON OFF	1. PUMPS CONDITION /	
GLANDS PACKING LUBE UNIT TEST VALVES 2. MOTOR CONTROL CENTER HOUR METERS PUMP #1 00139.9 / 3. HOUR METERS PUMP #1 00139.9 / 3. RUN LIGHTS MANUAL TEST MANUAL TEST GENERATOR TEST FUEL BATTERY HOUR METER BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES LEAD PUMP ON OFF LAG ON OFF BOTH PUMPS ON OFF ALARM ON OFF S. WET WELL GREASE BUILD-UP GREASE BUILD-UP STORE REDIS STORE NEEDS CLEANING PHEDDING FLOW METER READING FLOW METER READINGS OL LEVEL GREASE BUILD-UP GL-2 READING FLOW METER READINGS OL LEVEL GREASE SYSTEM PURGE SYSTEM RELIEF VALVE COMP #1 AMPS ON OFF COMP #2 AMPS ON OFF COMP #2 AMPS ON OFF	PUMP #1 - AMPS	
ALARM TEST OK AUTO	GLANDS PACKING LUBE UNIT LUBE UNIT	
GREASE BUILD-UP STITE FLOATS DEBRIS STITE NEEDS CLEANING NO NEEDS ENZYMES NEEDS HYPO NE	RUN LIGHTS ALARM TEST OK	7
PREVIOUS DIFFERENCE COMPRESSORS OIL LEVEL	GREASE BUILD-UP Some FLOATS OK DEBRIS Some NEEDS CLEANING NEEDS ENZYMES HYPO PUMP NEEDS HYPO CL-2 READING PH READING	
OIL LEVEL GAUGE READING BLEED SYSTEM PURGE SYSTEM RELIEF VALVE LUBE COMP #1 AMPS ON OFF COMP #2 AMPS ON OFF	CURRENT PREVIOUS	
BLEED \$YSTEM PURGE \$YSTEM RELIEF VALVE LUBE COMP #1 AMPS ON OFF COMP #2 AMPS ON OFF	. COMPRESSORS	
. BUILDING	BLEED SYSTEM	
LIGHTS SUMP PUMP HEATER DEHUMIDIFIER NEEDS CLEANING PAINTING	LIGHTS SUMP PUMP HEATER	
TAINTING	FAINTING	

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CATED	HASTON	New York Control of the Control of t
PUMPS CONE	SERVICE C	
•	1-AMPS	PUMP #2 - AMPS
		
↓ VOLTA	AGE _ 244 18	VOLTAGE
GLAN		VOLTAGE
PACKI		PACKING
LUBE		LUBE UNIT
	VALVES	TEST VALVES
		,
MOTOR CONT	ROL CENTER 5	2013/201
HOUR METERS ,	PUMP #1 20203.5	13.° PUMP #2 2867/. 13.
RUN LIGHTS	<u> </u>	ALARM TESTOK
MANUAL TEST _		AUTO TEST
GENERATOR TES	OIL LEVEL	ANTI-FREEZE
FUEL		
	STEM SIMULATION - GAUGE II	
LEAD PUMP ON _		_AG ON OFF
BOTH PUMPS ON	OFF A	ALARM ON OFF
		·
WET WELL	ID S-200 FLOATO	OK DEBRIS SOME
		•
NEEDS CLEANING	T	EEDS ENZYMES
NEEDS CLEANING ENZYME PUMP_	HYPO PUM	MP NEEDS HYPO
NEEDS CLEANING ENZYME PUMP_ CL-2 READING	HYPO PUM	•
NEEDS CLEANING ENZYME PUMP_	HYPO PUM	MP NEEDS HYPO
NEEDS CLEANING ENZYME PUMP_ CL-2 READING	HYPO PUM	NEEDS HYPO NEEDS HYPO CURRENT
NEEDS CLEANING ENZYME PUMP_ CL-2 READING	HYPO PUM	NEEDS HYPO H READING CURRENT PREVIOUS
NEEDS CLEANING ENZYME PUMP_ CL-2 READING	HYPO PUM	NEEDS HYPO NEEDS HYPO CURRENT
NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER RE	HYPO PUM pH ADINGS	NEEDS HYPO H READING CURRENT PREVIOUS
NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER RE	HYPO PUM pH ADINGS	NEEDS HYPO H READING CURRENT PREVIOUS
NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER RE	HYPO PUM pH ADINGS	NEEDS HYPO H READING CURRENT PREVIOUS DIFFERENCE GAUGE READING
NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER RE	HYPO PUM pH ADINGS	NEEDS HYPO H READING CURRENT PREVIOUS DIFFERENCE
NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER RE COMPRESSOR OIL LEVEL BLEED SYSTEM _	HYPO PUM pH ADINGS	NEEDS HYPO H READING CURRENT PREVIOUS DIFFERENCE GAUGE READING PURGE SYSTEM
NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER RE COMPRESSOR OIL LEVEL BLEED SYSTEM _ RELIEF VALVE COMP #1 AMPS	HYPO PUM pH ADINGS	MP NEEDS HYPO H READING CURRENT PREVIOUS DIFFERENCE DIFFERENCE DIFFERENCE LUBE LUBE NEEDS HYPO
NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER RE COMPRESSOR OIL LEVEL BLEED SYSTEM _ RELIEF VALVE COMP #1 AMPS	HYPO PUM pH ADINGS RS	MP NEEDS HYPO H READING CURRENT PREVIOUS DIFFERENCE GAUGE READING PURGE SYSTEM LUBE ON OFF
NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER RE. COMPRESSOR OIL LEVEL BLEED SYSTEM _ RELIEF VALVE COMP #1 AMPS _ COMP #2 AMPS _	HYPO PUM pH ADINGS RS	MP NEEDS HYPO H READING CURRENT PREVIOUS DIFFERENCE GAUGE READING PURGE SYSTEM LUBE ON OFF
NEEDS CLEANING ENZYME PUMP CL-2 READING FLOW METER RE COMPRESSOR OIL LEVEL BLEED SYSTEM _ RELIEF VALVE COMP #1 AMPS	HYPO PUM pH ADINGS RS	MP NEEDS HYPO H READING CURRENT PREVIOUS DIFFERENCE GAUGE READING PURGE SYSTEM LUBE ON OFF ON OFF

DATE 9-2-16	INITIALS
TATION KOTACY	Dr.
CATED JOHN STUD	ル
SE PUMPS CONDITION	ERVICE CHECK LIST
PUMP #1 - AMPS	26.3 PUMP #2 - AMPS 6.7
7. 8	25.0 7.2 7.0
	2/2/19
VOLTAGE	$\frac{243}{9}$ VOLTAGE $\frac{243}{9}$
GLANDS	GLANDS
PACKING	PACKING
LUBE UNIT	LUBE UNIT
TEST VALVES	TEST VALVES'
2. MOTOR CONTROL CEN	CJUNTER OUT
	755.8 \$ PUMP #2 31/2.8 4.4
RUN LIGHTS POMP #1	PUMP #2 Y
MANUAL TEST	ALAHM TEST OK
GENERATOR TEST YES	
FUEL	BATTERY OK HOUR METER 1/3.83 -
BUBBLETROL SYSTEM SIMULAT	
	FF LAG ON OFF
	FF ALARM ON OFF
. WET WELL	
GREASE BUILD-UP / 1774	E FLOATS OK DEBRIS SOME
NEEDS CLEANING	NEEDS ENZYMES
	HYPO PUMP NEEDS HYPO
CL-2 READING	pH READING
FLOW METER READINGS	1
	CURRENT
	PREVIOUS
	I
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OIL LEVEL	GAUGE READING
OIL LEVEL	GAUGE READING
OIL LEVEL	GAUGE READING PURGE SYSTEM LUBE
OIL LEVEL	GAUGE READING PURGE SYSTEM LUBE ON OFF
OIL LEVEL	GAUGE READING PURGE SYSTEM LUBE
OIL LEVEL	GAUGE READING PURGE SYSTEM LUBE ON OFF
BLEED SYSTEM RELIEF VALVE COMP #1 AMPS COMP #2 AMPS	GAUGE READING PURGE SYSTEM LUBE ON OFF

TE 9-8-16	INITIALS D. W.
ATION ROTARY	•
CATED JOHNSTO	ンジ
	ERVICE CHECK LIST
. PUMPS CONDITION	28.4
PUMP #1 - AMPS	28.4 PUMP #2; AMPS 7.5
	
VOLTAGE	243 17 VOLTAGE 243 37
GLANDS	GLANDS
PACKING	PACKING
LUBE UNIT	LUBE UNIT
TEST VALVES	TEST VALVES
. MOTOR CONTROL CEN HOUR METERS PUMP #1	NTER, COUNTER 9
RUN LIGHTS	7.51111111201
MANUAL TESTOK	
GENERATOR TEST	OIL LEVEL OK ANTI-FREEZE OK
FUEL/\/- GAS	BATTERY <i>OK</i> HOUR METER _/ 33.91 -/3
BUBBLETROL SYSTEM SIMULAT	
	FF LAG ON OFF
BOTH PUMPS ON OF	FF ALARM ON OFF
WET WELL	
	E FLOATS OF DEBRIS SomE
	NEEDS ENZYMES
ENZYME PUMP	
FLOW METER READINGS	pH READING
1 LOW WETER READINGS	1 CURRENT
-	CURRENT
	PREVIOUS
*	DIFFERENCE
COMPRESSORS	
COMPRESSORS	GALIGE READING
OIL LEVEL	GAUGE READING PURGE SYSTEM
	PURGE SYSTEM
OIL LEVEL	PURGE SYSTEM
OIL LEVEL, BLEED SYSTEM RELIEF VALVE COMP #1 AMPS	PURGE SYSTEM LUBEONOFF
OIL LEVEL	PURGE SYSTEM
OIL LEVEL, BLEED SYSTEM RELIEF VALVE COMP #1 AMPS COMP #2 AMPS	PURGE SYSTEM LUBEONOFF
OIL LEVEL	PURGE SYSTEM LUBEONOFF

DATE $\frac{9 - 16 - 16}{}$	INITIALS) //.	
STATION_ROTARY	~ 0		
OCATEDJOHNSTO	32		
S	ERVICE CHECK	LIST	
1. PUMPS CONDITION	2,5	_ ~	
PUMP #1 - AMPS	30.6	PUMP #2 - AMPS / ·	
<u></u>			, , , , , , , , , , , , , , , , , , ,
VOLTAGE	244 17	VOLTAGE 244	30
GLANDS		GLANDS	<u></u>
PACKING		PACKING	
LUBE UNIT		LUBE UNIT	
TEST VALVES		TEST VALVES	<u> </u>
	COUNTER		
MOTOR CONTROL CE	NTER OUT	28	5.9
HOUR METERS PUMP #1	155.° ×	PUMP #2 3/22,	3 · /
RUN LIGHTS OF		ALARM TEST OF	
MANUAL TESTOK		AUTO TEST	
OFNEDATOR TEST 1/65	·	~/	
GENERATOR TEST	0/	ANTI-FREEZE O/<	- 95 va
FUEL <u>N-613</u>	BATTERY OK	ANTI-FREEZE O/< HOUR METER / \$3.	98-12
FUEL	BATTERY NR ATION - GAUGE IN INCHES	HOUR METER 183.	98-12
FUEL	BATTERY	HOUR METER 183.	98-12
FUEL	BATTERY NR ATION - GAUGE IN INCHES	HOUR METER 183.	, 98_18 - -
FUEL	BATTERY	HOUR METER 183.	95-12 - -
FUEL	BATTERY	HOUR METER 183,	9°-12
FUEL	BATTERY	HOUR METER 183. OFF OFF DEBRIS Sime	- - -
BUBBLETROL SYSTEM SIMUL LEAD PUMP ON CO BOTH PUMPS ON CO WET WELL GREASE BUILD-UP CO NEEDS CLEANING CO	BATTERY	HOUR METER 183. OFF OFF DEBRIS Some	9°-13
BUBBLETROL SYSTEM SIMUL LEAD PUMP ON C BOTH PUMPS ON C WET WELL GREASE BUILD-UP C	BATTERY	HOUR METER 183. OFF OFF DEBRIS Some YMES NEEDS HYPO	9°_/3
FUEL	BATTERY	HOUR METER 183. OFF OFF DEBRIS Some YMES NEEDS HYPO	9°_18
BUBBLETROL SYSTEM SIMUL LEAD PUMP ON C BOTH PUMPS ON C WET WELL GREASE BUILD-UP / C NEEDS CLEANING / C ENZYME PUMP CL-2 READING / C	BATTERY	HOUR METER 183. OFF OFF DEBRIS Some YMES NEEDS HYPO	9°_/3
BUBBLETROL SYSTEM SIMUL LEAD PUMP ON	BATTERY	HOUR METER 183. OFF OFF DEBRIS Some YMES NEEDS HYPO	98 _ 13 - -
BUBBLETROL SYSTEM SIMUL LEAD PUMP ON	BATTERY	HOUR METER 183. OFF OFF DEBRIS Some YMES NEEDS HYPO CURRENT	98-13
BUBBLETROL SYSTEM SIMUL LEAD PUMP ON CO BOTH PUMPS ON CO WET WELL GREASE BUILD-UP / CO NEEDS CLEANING / CO ENZYME PUMP / CO CL-2 READING FLOW METER READINGS	BATTERY	HOUR METER 183. OFF OFF DEBRIS Some YMES NEEDS HYPO CURRENT PREVIOUS	90-13
BUBBLETROL SYSTEM SIMUL LEAD PUMP ON	BATTERY	HOUR METER 183. OFF OFF DEBRIS STIME YMES NEEDS HYPO CURRENT PREVIOUS DIFFERENCE	98-18
BUBBLETROL SYSTEM SIMUL LEAD PUMP ON	BATTERY	HOUR METER 183. OFF OFF DEBRIS Some YMES NEEDS HYPO CURRENT PREVIOUS DIFFERENCE READING	98-13
BUBBLETROL SYSTEM SIMUL LEAD PUMP ON CO BOTH PUMPS ON CO WET WELL GREASE BUILD-UP CO NEEDS CLEANING CO ENZYME PUMP CL-2 READING FLOW METER READINGS COMPRESSORS OIL LEVEL BLEED SYSTEM CO	BATTERY	HOUR METER 183. OFF OFF DEBRIS STIME YMES NEEDS HYPO CURRENT PREVIOUS DIFFERENCE READING SYSTEM	98-13
BUBBLETROL SYSTEM SIMUL LEAD PUMP ON	BATTERY	HOUR METER 183. OFF OFF DEBRIS STITE YMES NEEDS HYPO CURRENT PREVIOUS DIFFERENCE READING SYSTEM	98-13
BUBBLETROL SYSTEM SIMUL LEAD PUMP ON	BATTERY	HOUR METER 183. OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	95-18
BUBBLETROL SYSTEM SIMUL LEAD PUMP ON	BATTERY	HOUR METER 183. OFF OFF DEBRIS STITE YMES NEEDS HYPO CURRENT PREVIOUS DIFFERENCE READING SYSTEM	9°-1's
BUBLETROL SYSTEM SIMUL LEAD PUMP ON	BATTERY	HOUR METER 183. OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	95-13
BUBBLETROL SYSTEM SIMUL LEAD PUMP ON	BATTERY	HOUR METER 183. OFF OFF OFF OFF OFF OFF OFF OFF OFF OF	98-18

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STATION_ROTARY DR.	
OCATED	
SERVICE CHECK LIST	
1. PUMPS CONDITION	<i>A</i>
PUMP #1 - AMPS 30 · PUMP #2 - AMPS	6.8
$-1.\overline{2}$ -39.4 $7.\overline{3}$	7.0
01,-18	3/
VOLTAGE	245 38
GLANDS GLANDS	
PACKING PACKING	
LUBE UNIT LUBE UNIT	
TEST VALVES TEST VALVES	
2. MOTOR CONTROL CENTER OUT	
	77 4.9
7 000 #2 516	
ALANIM TEST	<u>K</u>
7,010 1201	
GENERATOR TEST YES OIL LEVEL OK ANTI-FREEZI FUEL N - GAS BATTERY OK HOUR METE	•
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES	159,0-757.7
LEAD PUMP ON OFF LAG ON OFF	
BOTH PUMPS ON OFF ALARM ON OFF	
OFF	
. WET WELL	
GREASE BUILD-UP LITTLE FLOATS OR DEBRIS S	ome
NEEDS CLEANING NEEDS ENZYMES	1
ENZYME PUMP NEEDS HYPO	
CL-2 READING pH READING	
FLOW METER READINGS	
CURRENT	
PREVIOUS	
DIFFERENCE	
2211777222	
COMPRESSORS	
OIL LEVEL GAUGE READING	
BLEED SYSTEM PURGE SYSTEM	
RELIEF VALVE LUBE	
COMP #1 AMPS ON OFF	_
	- -
COMP #1 AMPS ON OFF COMP #2 AMPS ON OFF	- -
COMP #1 AMPS ON OFF ON OFF ON OFF	
COMP #1 AMPS ON OFF ON OFF ON OFF	_

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ration <u>ROTAR</u>	V De.	
DCATED). 	
S PUMPS CONDITION	SERVICE CHECK LIST	
PUMP #1 -AMPS	27. ²	
	PUMP #2 - AMPS	
VOLTAGE	915 18 VOLTAGE 945	3 <i>5</i>
GLANDS	GLANDS 1	-
PACKING	PACKING PACKING	-
LUBE UNIT	LUBE UNIT	-
TEST VALVES	TEST VALVES	-
	CJUNTOR	-
MOTOR CONTROL CE	NTER DUT	C)
HOUR METERS PUMP #1	755.8 9 PUMP #2 3/32.5	4.0
RUN LIGHTSOK	ALARM TEST	
MANUAL TESTOX	AUTO TEST X	
GENERATOR TEST	OIL LEVEL OK ANTI-FREEZE OK	
FUEL _N-GAS_	BATTERY KOUR METER _/34. '	3 -13
BUBBLETROL SYSTEM SIMUL	ATION - GAUGE IN INCHES	
LEAD PUMP ON	DFFLAG ON OFF	
BOTH PUMPS ON C	DFF ALARM ON OFF	
WET WELL		
	DE FLOATS OK DEBRIS SOME	
7	NEEDS ENZYMES;	
ENZYME PUMP	HYPO PUMP NEEDS HYPO	
CL-2 READING	PH READING	
FLOW METER READINGS		•
	CURRENT	-
-	PREVIOUS	-
-	DIFFERENCE	
COMPRESSORS		
1	GALIGE READING	
COMPRESSORS OIL LEVEL	GAUGE READING PURGE SYSTEM	
OIL LEVEL	PURGE/SYSTEM	
OIL LEVEL	PURGE SYSTEM	
OIL LEVEL	PURGE SYSTEM LUBEONOFF	
BLEED SYSTEM RELIEF VALVE COMP #1 AMPS	PURGE SYSTEM	
OIL LEVEL	PURGE SYSTEM LUBEONOFF	
OIL LEVEL	PURGE SYSTEM	
OIL LEVEL	PURGE SYSTEM	

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FERNCO SERVICES INC. 508-336-3222 INITIALS_ / -/ BENNETT LOCATED. SERVICE CHECK LIST 1. PUMPS CONDITION PUMP #1 - AMPS. PUMP #2 - AMPS VOLTAGE **VOLTAGE** GLANDS **GLANDS PACKING PACKING LUBE UNIT LUBE UNIT TEST VALVES TEST VALVES** 2. MOTOR CONTROL CENTER HOUR METERS PUMP #1_ PUMP #2_ **RUN LIGHTS** __ ALARM TEST. MANUAL TEST ___ AUTO TEST . GENERATOR TEST _ __ OIL LEVEL ___ ___ ANTI-FREEZE _____ BATTERY _____ ____ HOUR METER BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES LEAD PUMP ON .. OFF__ ___LAG ON _ BOTH PUMPS ON ALARM ON _ OFF 3. WET WELL GREASE BUILD-UP SME _ FLOATS ___ DEBRIS 🥰 NEEDS CLEANING ____ ___ NEEDS ENZYMES. ENZYME PUMP_ HYPO PUMP _ **NEEDS HYPO** CL-2 READING ___ ___ pH READING. FLOW METER READINGS CURRENT - PREVIOUS DIFFERENCE 4. COMPRESSORS OIL LEVEL __ GAUGE READING BLEED SYSTEM __ PURGE SYSTEM _ RELIEF VALVE _ LUBE COMP #1 AMPS _ ON _ OFF. COMP #2 AMPS _ OFF. 5. BUILDING LIGHTS _ SUMP PUMP. HEATER DEHUMIDIFIER **NEEDS CLEANING** ___ PAINTING 6. SPECIAL NOTES **CUSTOMER SIGNATURE: .**

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	INITIALS OX
STATION So. BE	INNETT DR.
LOCATED TOHNSTO	つり
S	SERVICE CHECK LIST
1. PUMPS CONDITION	17.5
PUMP #1 - AMPS	PUMP #2 - AMPS
	7,7
VOLTAGE	244 17 VOLTAGE 244 17
GLANDS	GLANDS
PACKING	PACKING
LUBE UNIT	LUBE UNIT
TEST VALVES	TEST VALVES
2. MOTOR CONTROL CE	ENTED
HOUR METERS PUMP #1	
RUN LIGHTSOV	<i>N/Le</i>
MANUAL TEST	ALAHW TEST
	6OIL LEVEL ANTI-FREEZE
FUEL	BATTERY HOUR METER
BUBBLETROL SYSTEM SIMUL	,
	OFF LAG ON OFF
	OFF ALARM ON OFF
	OFF
3. WET WELL	
GREASE BUILD-UP Som	DE FLOATS OK DEBRIS SOME
	NEEDS ENZYMES]
	HYPO PUMP NEEDS HYPO
CL-2 READING	
FLOW METER READINGS	
	CURRENT
	PREVIOUS
	DIFFERENCE
0011000000	
- COMPRESSORS	1
*	GAOGE HEADING
RI EED OVOTEM	PURGE SYSTEM
RELIEF VALVE	
COMP #1 AMPS	ON OFF
RELIEF VALVE	ON OFF
COMP #2 AMPS	ON OFF
RELIEF VALVE COMP #1 AMPS COMP #2 AMPS	ON OFF
RELIEF VALVE	ON OFF

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rationS. Ba	ENNETT DR.	
OCATED	157021	
1. PUMPS CONDITIO	SERVICE CHE	CK LIST
PUMP #1 - AMP		1,4
FUMP #1 - AIVIP	155	PUMP #2 - AMPS
		<u> </u>
VOLTAGE	_240 ¹⁸	VOLTAGE 240 18
GLANDS		GLANDS
PACKING		PACKING
LUBE UNIT		LUBE UNIT
TEST VALVES	3	TEST VALVES
		
MOTOR CONTROL		,/
HOUR METERS PUMP #		PUMP #2//A
RUN LIGHTS		ALARM TEST OK
	0/4	AUTO TEST
GENERATOR TEST		ANTI-FREEZE
	BATTERY '	HOUR METER
LEAD PUMP ON	SIMULATION - GAUGE IN INCH	\
BOTH PUMPS ON	OFF LAG ON ALARM	
	- OII — ALANIVI	OFF
. WET WELL		
GREASE BUILD-UP	one floats0	DEBRIS STITE
NEEDO OLEATIONE	110	ENZYMEC)
NEEDS CLEANING	NEEDS E	
NEEDS CLEANING ENZYME PUMP	HYPO PUMP	
NEEDS CLEANING ENZYME PUMP CL-2 READING	HYPO PUMP pH READ	NEEDS HYPO
ENZYME PUMP	HYPO PUMP pH READ	NEEDS HYPO
ENZYME PUMP CL-2 READING	HYPO PUMP pH READ	NEEDS HYPO
ENZYME PUMP CL-2 READING	HYPO PUMP pH READ	DING
ENZYME PUMP CL-2 READING	HYPO PUMP pH READ	NEEDS HYPO
ENZYME PUMP CL-2 READING FLOW METER READINGS	HYPO PUMP pH READ	NEEDS HYPO DING CURRENT PREVIOUS
ENZYME PUMP CL-2 READING FLOW METER READINGS COMPRESSORS	HYPO PUMP pH READ	NEEDS HYPO DING CURRENT PREVIOUS DIFFERENCE
ENZYME PUMP CL-2 READING FLOW METER READINGS COMPRESSORS OIL LEVEL	HYPO PUMP pH READ	NEEDS HYPO OING CURRENT PREVIOUS DIFFERENCE UGE READING
ENZYME PUMP CL-2 READING FLOW METER READINGS COMPRESSORS OIL LEVEL BLEED SYSTEM	HYPO PUMP pH READ	NEEDS HYPO OING CURRENT PREVIOUS DIFFERENCE UGE READING RGE SYSTEM
ENZYME PUMP CL-2 READING FLOW METER READINGS COMPRESSORS OIL LEVEL BLEED SYSTEM RELIEF VALVE	HYPO PUMP pH READ GAL PUF LUB	NEEDS HYPO OING CURRENT PREVIOUS DIFFERENCE UGE READING RGE SYSTEM BE
ENZYME PUMP CL-2 READING FLOW METER READINGS COMPRESSORS OIL LEVEL BLEED SYSTEM RELIEF VALVE COMP #1 AMPS	HYPO PUMP pH READ GAL PUF LUB ON	NEEDS HYPO OING CURRENT PREVIOUS DIFFERENCE UGE READING RGE SYSTEM BE OFF
ENZYME PUMP CL-2 READING FLOW METER READINGS COMPRESSORS OIL LEVEL BLEED SYSTEM RELIEF VALVE	HYPO PUMP pH READ GAL PUF LUB ON	NEEDS HYPO OING CURRENT PREVIOUS DIFFERENCE UGE READING RGE SYSTEM BE
ENZYME PUMP CL-2 READING FLOW METER READINGS COMPRESSORS OIL LEVEL BLEED SYSTEM RELIEF VALVE COMP #1 AMPS COMP #2 AMPS	HYPO PUMP pH READ GAL PUF LUB ON	NEEDS HYPO OING CURRENT PREVIOUS DIFFERENCE UGE READING RGE SYSTEM BE OFF
ENZYME PUMP CL-2 READING FLOW METER READINGS COMPRESSORS OIL LEVEL BLEED SYSTEM RELIEF VALVE COMP #1 AMPS	GAL PUF LUB ON ON	NEEDS HYPO OING CURRENT PREVIOUS DIFFERENCE UGE READING RGE SYSTEM BE OFF OFF

CUSTOMER SIGNATURE: _

508-336-3222 70738 DATE OHNSTON LOCATED_ SERVICE CHECK LIST 1. PUMPS CONDITION PUMP #1 - AMPS. PUMP #2 - AMPS **VOLTAGE VOLTAGE GLANDS GLANDS PACKING PACKING LUBE UNIT LUBE UNIT TEST VALVES TEST VALVES** 2. MOTOR CONTROL CENTER HOUR METERS PUMP #1_ PUMP #2_ RUN LIGHTS ___ OK ALARM TEST. MANUAL TEST ___ AUTO TEST _ GENERATOR TEST _ OIL LEVEL ____ ANTI-FREEZE . __ BATTERY ___ _ HOUR METER. **BUBBLETROL SYSTEM SIMULATION - GAUGE IN INCHES** LAG ON _ LEAD PUMP ON _ OFF_ BOTH PUMPS ON _ 3. WET WELL GREASE BUILD-UP Some FLOATS OK DEBRIS _ NEEDS CLEANING _____ _____ NEEDS ENZYMES ENZYME PUMP _____ _ HYPO PUMP _ **NEEDS HYPO** CL-2 READING ____ pH READING . FLOW METER READINGS _ CURRENT _ PREVIOUS _ DIFFERENCE 4. COMPRESSORS OIL LEVEL ___ **GAUGE READING** BLEED SYSTEM _ PURGE SYSTEM _ RELIEF VALVE _ LUBE _ COMP #1 AMPS _ ON_ OFF COMP #2 AMPS _ ON. OFF 5. BUILDING LIGHTS __ SUMP PUMP _ HEATER DEHUMIDIFIER. NEEDS CLEANING . **PAINTING** 6. SPECIAL NOTES

FERNCO SERVICES INC.

CUSTOMER SIGNATURE: .

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ration <u>SPRAGUE</u>	CIR.	
DCATED JOHN STOL		
SER	VICE CHECK LIST	
. PUMPS CONDITION	, > 6	. 2
PUMP #1 - AMPS	PUMP #2 - AMPS	
	<u> </u>	16.1
VOLTAGE	45 34 VOLTAGE	35
GLANDS	<u> </u>	045
PACKING	GLANDS	
LUBE UNIT	PACKING	
TEST VALVES	LUBE UNIT	-
LOT VALVES	TEST VALVES	
MOTOR CONTROL CENT	ER -	
HOUR METERS PUMP #1		9.8 14.7
RUN LIGHTS		O.K.
MANUAL TEST	AUTO TEST	K
GENERATOR TEST	OIL LEVEL ANTI-FREEZE	,)
FUEL	_	. .
BUBBLETROL SYSTEM SIMULATION		
LEAD PUMP ON OFF		
BOTH PUMPS ON OFF_	ALARM ON OFF	
WET WELL		
GREASE BUILD-UP	FLOATS DEBRIS	<u>ES</u>
NEEDS CLEANING	NEEDS ENZYMES /	
ENZYME PUMP	1	
and the second s	pH READING	
FLOW METER READINGS	,	
	CURRENT	
	PREVIOUS	
	DIFFERENCE	
COMPRESSORS		
	GAUGE READING	
BLEED SYSTEM	PURGE SYSTEM	
DELICE VALUE	11105	
00110 114 41400	ON OFF	
COMP #2 AMPS		-
	——————————————————————————————————————	_
BUILDING		
LICHTO	SUMP PUMP HEATER	
LIGHTS		
	NEEDS CLEANING PAINTING	
	NEEDS CLEANING PAINTING	

/)	INITIALS
STATIONSPRAGUE	E Cin.
OCATED JOHNS	502
S	SERVICE CHECK LIST
1. PUMPS CONDITION	17.2
PUMP #1 - AMPS	PUMP #2 - AMPS
	37
VOLTAGE	743 VOLTAGE 243 39
GLANDS	GLANDS
PACKING	PACKING
LUBE UNIT TEST VALVES	LUBE UNIT TEST VALVES
2. MOTOR CONTROL CE	
HOUR METERS PUMP #1	/
RUN LIGHTS//A	ALATINI IZOT
GENERATOR TEST	AUTO TEST
FUEL	BATTERY HOUR METER
BUBBLETROL SYSTEM SIMUL	
•	OFF LAG ON OFF
BOTH PUMPS ON C	OFF ALARM ON OFF
. WET WELL	
GREASE BUILD-UP	5 FLOATS OK DEBRIS YES
<u> </u>	NEEDS ENZYMES / /
ENZYME PUMP	HYPO PUMP NEEDS HYPO
	pH READING
FLOW METER READINGS	,
	CURRENT
	PREVIOUS DIFFERENCE
	DIFFERENCE
. COMPRESSORS	,
OIL LEVEL	GAUGE READING
OIL LEVEL	GAUGE READING PURGE SYSTEM
OIL LEVEL	GAUGE READING PURGE SYSTEM LUBE
OIL LEVEL	GAUGE READING PURGE SYSTEM LUBE ON OFF
OIL LEVEL	GAUGE READING PURGE SYSTEM LUBE ON OFF
OIL LEVEL BLEED SYSTEM RELIEF VALVE COMP #1 AMPS COMP #2 AMPS	GAUGE READING PURGE SYSTEM LUBE ON OFF ON OFF
OIL LEVEL BLEED SYSTEM RELIEF VALVE COMP #1 AMPS COMP #2 AMPS BUILDING LIGHTS	GAUGE READING PURGE SYSTEM LUBE ON OFF ON OFF SUMP PUMP HEATER
OIL LEVEL BLEED SYSTEM RELIEF VALVE COMP #1 AMPS COMP #2 AMPS	GAUGE READING PURGE SYSTEM LUBE ON OFF ON OFF SUMP PUMP HEATER

TE $\frac{9-16-16}{2}$ INITIALS	$\mathcal{L}\mathcal{L}\mathcal{L}$
ATION SPRAGUE CIR	
CATED OHNSTON	
SERVICE CHE	CK LIST
PUMP #1 - AMPS	2//
	PUMP #2 - AMPS
7-/	2/
VOLTAGE <u>243 3</u>	VOLTAGE 643
GLANDS	GLANDS
PACKING	PACKING
LUBE UNIT TEST VALVES	LUBE UNIT
TEST VALVES	TEST VALVES
. MOTOR CONTROL CENTER 9	// -
HOUR METERS PUMP #1	_ PUMP #2 17050.4 18.3
RUN LIGHTS	_ ALARM TESTOK
MANUAL TEST	AUTO TEST
· /	ANTI-FREEZE
	NOUR METER
BUBBLETROL SYSTEM SIMULATION - GAUGE IN INC	
	1
BOTH PUMPS ON OFF ALARI	M ON OFF
WET WELL	
and the second s	OK DEBRIS
NEEDS CLEANING YES NEEDS	
ENZYME PUMP HYPO PUMP	
CL-2 READING pH REA	1
FLOW METER READINGS	,
	CURRENT
	PREVIOUS
	DIFFERENCE
COMPRESSORS	
• · · · · · · · · · · · · · · · · · · ·	AUGE READING
	JRGE SYSTEM
	JBE
	N OFF
	V OFF
BUILDING	1
BUILDING LIGHTS SUMP PUMP DEHUMIDIFIER NEEDS CLEANIN	

те <u>9-23-76</u>	INIT	TALS_O	7/.			_
TATIONSARAGUE	E Circ.					
OCATED JOHNS	NOA					
	SERVICE C	HECK	LIST			·
. PUMPS CONDITION	, U					. 1
PUMP #1 - AMPS _	16.1		PUMP #		3	16.
/7. '			16	<u>, 4</u>	·	/7.
VOI T1 0 -	2/12 3	Ģ			^	37
VOLTAGE _	<u> </u>	, j	VOLT		-2	437
GLANDS _			GLAN		\longrightarrow	
PACKING _			PACK			
LUBE UNIT _				UNIT	——	<u> </u>
TEST VALVES _			TEST	VALVES		· · · · · · · · · · · · · · · · · · ·
MOTOR CONTROL (OFNITES					
MOTOR CONTROL (HOUR METERS PUMP #1	JENTER	Ø,		1 ~		- 4 1-
	1	/	PUMP #2			13
RUN LIGHTS	,		ALARM 1			AL.
MANUAL TEST) . [AUTO TE			12
GENERATOR TEST	OIL LEVEL					*
FUEL			ا	HOUR M	ETER	•
BUBBLETROL SYSTEM SIM						
LEAD PUMP ON	1			OFF.		· · · · · · · · · · · · · · · · · · ·
BOTH PUMPS ON	OFFA	LARM ON _	+	OFF .		
METMEL			•			
WET WELL	150	01/				<i>~</i>
GREASE BUILD-UP	FLOATS _	<u>OR</u>	(DEBRIS	<u> </u>	
NEEDS CLEANING					<u></u>	
ENZYME PUMP				NEEDS I	HYPO	
CL-2 READING	pH	READING .				-
FLOW METER READINGS		,	•			
_		 		CURREN	T	
			F	PREVIOU	IS	
_				DIFFERE	NCE	
						•
COMPRESSORS	,					
OIL LEVEL		GAUGE F	ŖEADING			
BLEED SYSTEM		PURGE S	YSTEM .			
RELIEF VALVE	1	LUBE				
HELIEF VALVE	 	ON				
COMP #1 AMPS		ON)FF		
·	<u> </u>					
COMP #1 AMPS				1		
COMP #1 AMPS				•		
COMP #1 AMPS COMP #2 AMPS BUILDING			_	IFATER	ì	
COMP #1 AMPS	SUMP PUMI	P	- 1	IEATER	- 1	-,-

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ATED	WSTOW		
	SERVICE CHEC	K LIST	-
PUMPS CONDITION	ON 3	1	
PUMP #1 - AM 	PS /5.3 	PUMP #2 - AMPS	_
VOLTAGE	243 30	VOLTAGE 243 35	
GLANDS		GLANDS	
PACKING		PACKING	
LUBE UNIT		LUBE UNIT	
TEST VALVE	ss	TEST VALVES	
MOTOR CONTRO	CENTED C		
HOUR METERS PUMP		DIMP #0 17078.7 14	, 3
RUN LIGHTS	NA	PUMP #2 // / O / T · / Y ALARM TEST OŁ	-
MANUAL TEST	NIO	-17	—
GENERATOR TEST	W/D OIL LEVEL	AUTO TEST OF	
FUEL	BATTERY	HOUR METER	_
	SIMULATION - GAUGE IN INCHE		_
LEAD PUMP ON	OFFLAG ON	OFF	
BOTH PUMPS ON	_ OFF ALARM O	, , , , , , , , , , , , , , , , , , , ,	
NET WELL			
GREASE BUILD-UP	YES FLOATS	DKDEBRISYES	
NEEDS CLEANING	VES NEEDS EN	• • • • • • • • • • • • • • • • • • • •	_
ENZYME PUMP	HYPO PUMP	NEEDS HYPO	
CL-2 READING	pH READIN		_
FLOW METER READING			_
		CURRENT	
	1	PREVIOUS	
		DIFFERENCE	
	1		
COMPRESSORS			
OIL LEVEL	3	BE READING	_
BLEED SYSTEM		GE SYSTEM	_
RELIEF VALVE	1		_
COMP #1 AMPS			
COMP #2 AMPS	ON _	OFF	
		, t	
uu sus		1	
BUILDING		1	
BUILDING LIGHTS DEHUMIDIFIER	1	HEATER	

FERNCO SERVICES INC.

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TATIONSUSAW	Cir.		
OCATED JOHNS	CTON		
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6. SPECIAL NOTES

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6. SPECIAL NOTES

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FERNCO SERVICES INC.

Appendix D

Town of Johnston

Pump Stations Emergency Call Log

Town of Johnston Emergency calls, 2011 - 2016

Pump Station	Date	Reason for Call	Corrective Action			
Candice Court	12/26/2012	One pump not priming – Isolated pump	Cleaned probe and airlines			
Candice Court	2/11/2013	Pump not priming – Isolated pump	Cleaned probe and airlines			
Candice Court		Pump not priming – Isolated pump	Cleaned probe and airlines			
Candice Court	11/29/2014	Pump not priming – Isolated pump	Cleaned probe and airlines			
Candice Court	2/15/2015	Bad compressor – Isolated pump	Replaced compressor within the next few days			
Candice Court	7/11/2015	Floats stuck in solids – cleared accordingly				
Candice Court	3/16/2016	Found a grounding problem on the electrical add a phase system	Hired an outside electrucian to repair the next day			
Candice Court	3/17/2016	Found a grounding problem on the electrical add a phase system				
Sweet Hill Drive	2/18/2011	Clogged pump – Isolated pump	Cleared pump the next day			
Sweet Hill Driv€	6/21/2012	Breaker tripped – Reset and found working ok				
Sweet Hill Drive	9/18/2012	One pump clogged – Cleared accordingly – Station running ok				
Sweet Hill Drive	12/10/2012	Heavy rain causing the alarm and second pump to come on				
Industrial Lane	1/3/2011	Breaker tripped, pump not working – Isolated pump	Repaired pump the next day			
Industrial Lane		Pump not pumping – IsolatedPump	Cleared pump the next day			
Jennifer Drive		Floats not working properly – installed a new float				
Morgan Mill	3/26/2012	No alarm upon arrival station working ok				
Ostend Street	4/20/2011	Pump tripped breaker, reset pump is now working				
Ostend Street	4/26/2011	Pump tripped breaker again – Isolated pump	Clearefd or replaced pump within a few days			
Ostend Street	10/18/2012	One pump had bad capacitors – Isolated pump	Replaced capacitors within the next few days			
Ostend Street	4/12/2014	Electrical problem in the control panel – Repaired on site				
Ostend Street	10/31/2014	Floats stuck in solids – cleared accordingly				
Ostend Street	5/16/2016	Pumps clogging and discharge check valves not working properly				
Ostend Street	5/23/2016	Pumps clogging and discharge check valves not working properly	Repaired piping and cleared pump from previous calls			
Rotary Drive	3/25/2015	One pump clogged – Isolated pump	Cleared pump within the next few days			
Rotary Drive	6/2/2015	Pump clogged – Isolated pump each time	Cleared pump within the next few days			
Rotary Drive	6/9/2015	Pump clogged – Isolated pump each time	Cleared pump and modified the pump volute			
Sprague Circle	2/8/2016	Floats not working properly – replaced on site				
Susan Circle	10/26/2014	Floats not working properly – Installed a new float				

List provided by Fernco Services on 3/30/2017.

Appendix E

Town of Johnston

Pump Stations Condition Assessment & Preventive Maintenance / Corrective Measures Table



Johnston Sewers

Pump Stations Condition Assessment & Preventive Maintenance / Corrective Measures Table

Town of Johnston Owned Pump Stations

own of Johnston Owned Pump Stations Station and Pumps Data				Motor Control Center							
Station Name	Station Type	Year Built / Last Major Improvements	Pump Manufacturer	Year Pump(s) Installed	Preventive Maintenance / Corrective Measures	Alarm Type	Preventive Maintenance / Corrective Measures	Emergency Power	Preventive Maintenance / Corrective Measures	Other Preventive Maintenance / Corrective Measures	Schedule
Candice Court	Above Ground	Before 1985	Smith & Loveless	Before 1985; Original to Station	Contract outside company for solids and grease removal 2x/year	Audible & Visual	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator		Cleaning Contract / Alarm / Receptacle In plac Q4 2017
Central Avenue	Above Ground	2015	Gorman Rupp	2015; Original to Station	Annual Maintenance Contract with Pump Manufacturers	Automated		Backup Generator			Maintenance Contract in place Q4 2017
Green Earth Way	Above Ground	Around 2010	Gorman Rupp	Around 2010; Original to Station	Annual Maintenance Contract with Pump Manufacturers	Automated		Backup Generator			Maintenance Contract in place Q4 2017
Industrial Lane	Submersible	Before 1980	Tsurumi	Around 2010		Visual only	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator	Replace Control Panel	Submit RFP for Control Panel Q4 2017. Alarm / Receptacle In place Q4 2017
Jennifer Drive	Submersible	Around 1990	Myers Ebara	Around 1990; Original to Station 2016; 4th Quarter		Audible & Visual	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator	Replace Control Panel	Alarm / Receptacle / Control Panel in place Q4 2017
Morgan Mill Road	Submersible	Before 1980	Peabody Barnes	Around 2000	Install Two (2) New Tsurumi Cutting Pumps	Audible & Visual	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator		New Pumps / Alarm / Receptacle in place Q4 2017
Ostend Street	Submersible	Around 1985	Ebara Ebara	2017; 1st Quarter Around 2010		Audible & Visual	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator		Alarm / Receptacle In place Q4 2017
Recycle Road	Above Ground	Around 2010	Gorman Rupp	Around 2010; Original to Station	Annual Maintenance Contract with Pump Manufacturers	Automated		Backup Generator			Maintenance Contract in place Q4 2017
River Drive (Replacement)	Submersible	2017 (scheduled to be online in April)	НОМА	2017; Original to Station		Audible & Visual	Install Automated/ Monitored Alarm System		Install receptacle for connection of Emergency Generator		Alarm / Receptacle in place Q4 2017
Rotary Drive	Submersible	Around 2005	Tsurumi Ebara	Around 2015 Around 2005; Original to Station		Audible & Visual	Install Automated/ Monitored Alarm System	Backup Generator			Alarm in place Q4 2017
South Bennett Drive(Replacement)	Submersible	2017 (scheduled to be online in April)	НОМА	2017; Original to Station		Audible & Visual	Install Automated/ Monitored Alarm System		Install receptacle for connection of Emergency Generator		Alarm / Receptacle in place Q4 2017
Sprague Circle	Above Ground	Around 1985	Smith & Loveless	Around 1985; Original to Station	Contract outside company for solids and grease removal 2x/year	Audible & Visual	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator		Cleaning Contract / Alarm / Receptacle in plac Q4 2017
Susan Circle	Submersible	Around 1985	Ebara Myers	Around 2005 Around 2015	Install New Ebara Grinder Pump	Audible & Visual	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator		New Pump / Alarm / Receptacle / Control Pan in place Q4 2017
Sweet Hill Drive	Submersible	Before 1980	Tsurumi	Around 2013		Visual only	Install Automated/ Monitored Alarm System	None	Install receptacle for connection of Emergency Generator	Replace Control Panel	Alarm / Receptacle / Control Panel in place Q 2017

All Stations are duplex pump configuration

Prepared By: ADO
Date: 4/7/2017

Appendix F

Town of Johnston

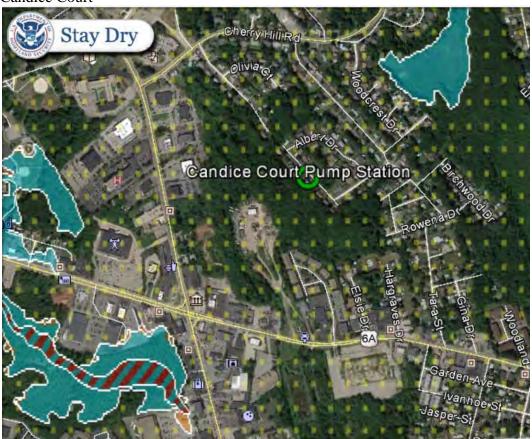
FEMA Flood Plain Review

Flood Plain Overlays

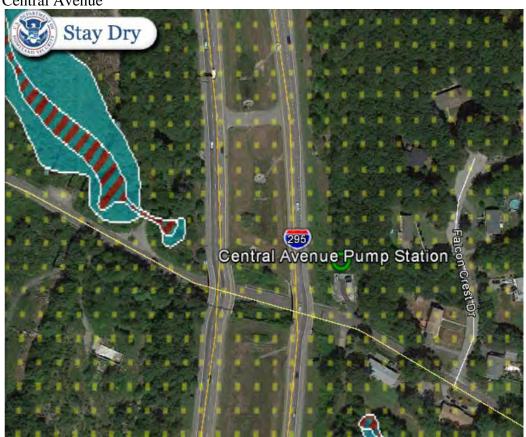
Legend



Candice Court



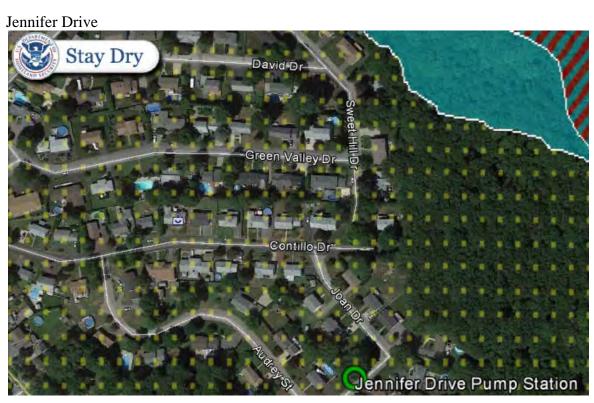
Central Avenue



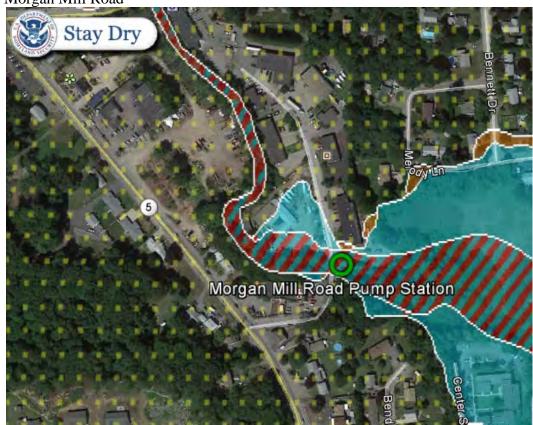


Industrial Lane













Recycle Road



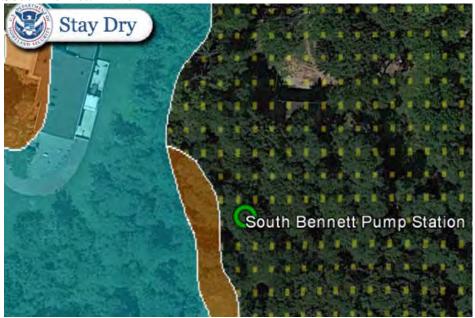
River Drive



Rotary Drive



South Bennett Drive





Susan Circle

